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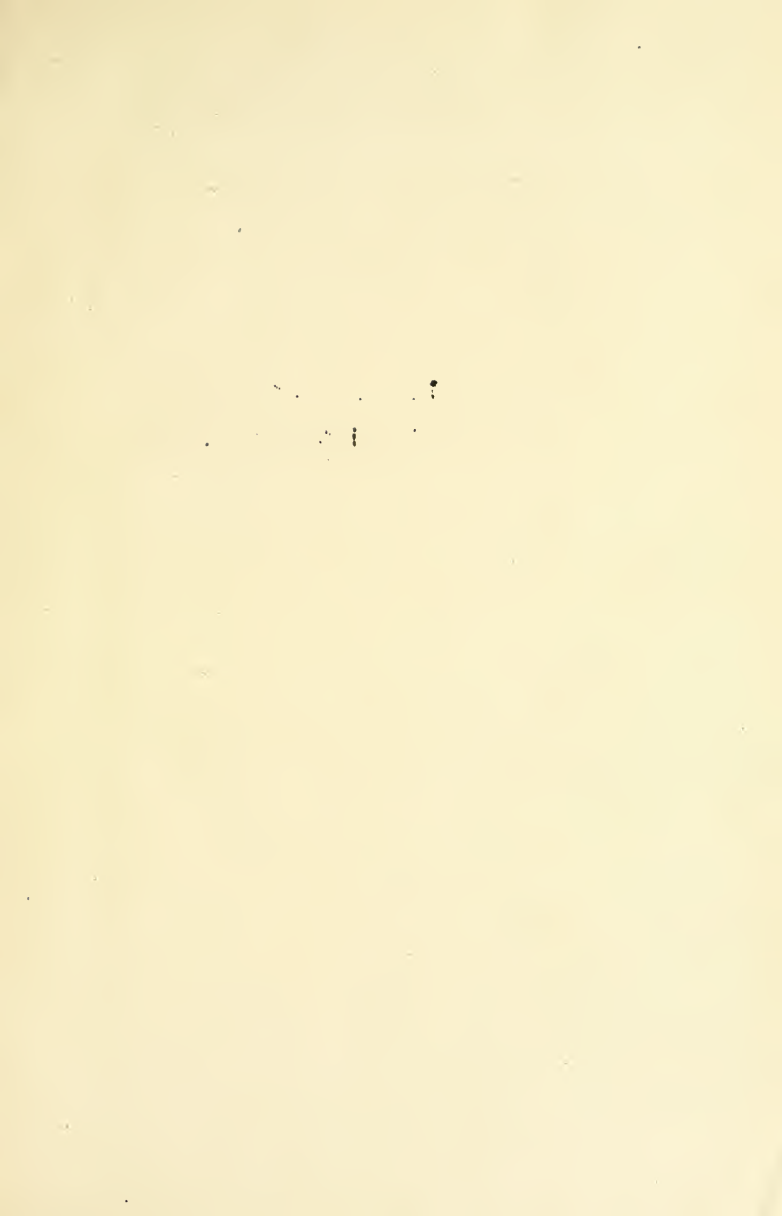
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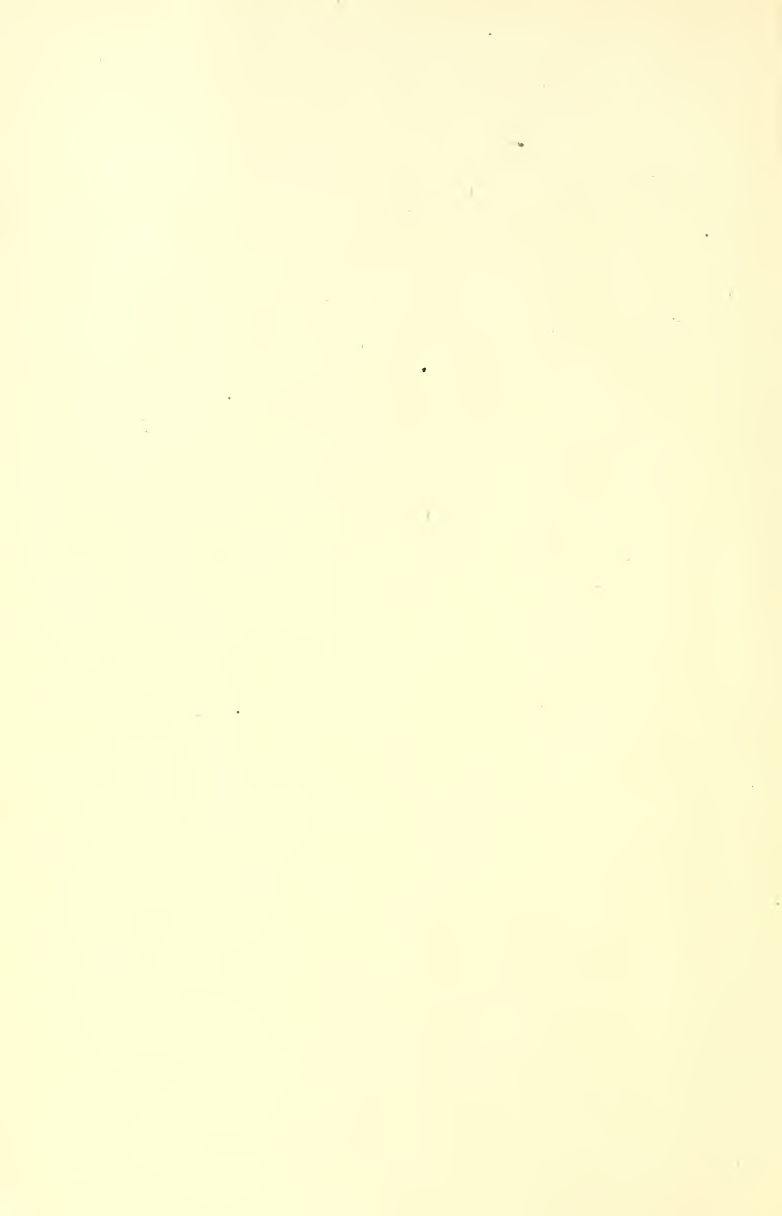
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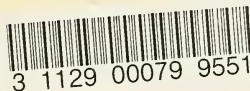
THIRTY-SECOND

ANNUAL COAL REPORT

OF ILLINOIS

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STATE MINING BOARD  
1913



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1913

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1913

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## SECOND DISTRICT

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## FOURTH DISTRICT

JAMES TAYLOR, Peoria

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## SIXTH DISTRICT

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## TENTH DISTRICT

THOMAS LITTLE, Murphysboro

## ELEVENTH DISTRICT

FRANK ROSBOTTOM, Benton

## TWELFTH DISTRICT

J. W. FAIRBAIRN, Marion



## LETTER OF TRANSMITTAL

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STATE OF ILLINOIS,  
OFFICE OF THE STATE MINING BOARD,  
SPRINGFIELD, Jan. 1, 1914.

*Honorable Edward F. Dunne, Governor of Illinois.*

SIR: I have the honor, on behalf of the State Mining Board, to submit herewith the thirty-second annual report of the coal industry of the State for the fiscal year ended June 30, 1913.

Very respectfully,

MARTIN BOLT, *Chief Clerk*





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## THIRTY-SECOND ANNUAL COAL REPORT

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### Statistics of Coal in Illinois for the Year Ended June 30, 1913

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#### INTRODUCTORY

The year ended June 30, 1913, is a notable one in the coal mining industry of the State. The increase in the output of shipping mines over last year is 4,418,721 tons, notwithstanding the number of this class of mines was nine less than last year. The average number of days this class of mines were in operation is seven more than last year and there were 448 more employees.

The commercial coal—that transported by the railroads of the State from the mines to the markets—is 55,972,374 tons, or 92.49 per cent of the total product. Last year 93.59 per cent was shipped.

One hundred forty mines used machines to undercut the coal, producing 30,228,520 tons, and using 1,689 machines. Of these mines, 86 used machines exclusively, 21,184,931 tons were mined, and 1,065 machines were used. The increase in the number of tons cut this year is 4,678,501, and in the number of machines used, 108. By referring to Table 56 it will be seen that mining by machines has steadily increased from year to year until nearly one-half of the total output of the commercial mines is produced in this way.

The number of kegs of powder used for blasting coal is 4,066 less than in 1912. This is partly offset by an increase of 275,345 pounds of permissible explosives. However, 41.55 tons to each keg of powder were produced this year, while last year the record was 38.97 tons per keg.

One hundred seventy-five employees lost their lives while in the discharge of their duties in and around the mines and 1,025 were injured so as to lose thirty or more days time. This is a decrease of five in the number killed and an increase of 225 in the number injured. This year the number of tons mined to each life lost is 353,407, while the figures last year show 319,524 tons to each fatal accident. The number of tons mined to each man injured this year is 60,338; last year it was 71,893. A study of the tables on this subject will show the cause of these accidents and the occupations which are the most hazardous to employees.

As heretofore, the data contained in this report is furnished by the twelve State Inspectors of Mines, and the same general plan is followed

in the arrangement. Two or three tables, which were largely repetitions of others, have been omitted and a few new ones inserted, which, it is believed, will add to the value of the report.

### SUMMARY

The following summary for the years ended June 30, 1912 and 1913, is here presented:

Summary	1913	1912
Number of counties producing coal.....	50	52
Number of mines and openings of all kinds.....	840	879
New mines or old mines reopened during the year.....	86	176
Mines closed or abandoned since last report.....	125	142
Total output of all mines, in tons of 2,000 pounds.....	61,846,204	57,514,240
Number of shipping or commercial mines.....	371	380
Total output of shipping mines, tons.....	60,515,416	56,096,695
Number of mines in local trade only.....	469	499
Output of local mines, tons.....	1,330,788	1,417,545
Total tons of mine run coal.....	14,979,990	13,366,509
Total tons of lump coal.....	20,850,125	21,795,527
Total tons of egg coal.....	6,819,980	4,940,431
Total tons of nut coal.....	3,130,065	3,193,956
Total tons of pea coal.....	13,734,537	11,109,191
Total tons of slack coal.....	2,331,507	3,108,626
Total tons shipped.....	55,972,374	51,502,382
Tons supplied to locomotives at the mines.....	904,570	924,854
Tons sold to local trade.....	2,345,133	2,615,678
Tons consumed (or wasted at the plant).....	2,624,127	2,471,326
Average days of active operation for shipping mines.....	179	172
Average days of active operation for all mines.....	170	160
Number of motors in use.....	466	381
Number of mines in which mining machines are used.....	140	139
Number of mining machines in use.....	1,689	1,581
Number of tons undercut by machine.....	30,228,520	25,550,019
Number of tons mined by hand.....	31,617,684	31,964,221
Average number of miners employed during the year.....	35,401	39,149
Average number of other employees underground, men.....	35,662	31,687
Average number of boys employed underground.....	1,430	1,526
Average number of employees above ground.....	7,004	7,049
Total number of employees.....	79,497	79,411
Average price paid per gross ton for hand mining, shipping mines.....	\$0.664	\$0.636
Average price paid per gross ton for machine mining.....	\$0.521	\$0.496
Number of kegs of powder used for blasting coal.....	1,309,382	1,313,448
Number of kegs of powder used for other purposes.....	3,685	3,040
Number of pounds of permissible explosives used.....	603,420	328,075
Number of men accidentally killed.....	175	180
Number of men injured so as to lose a month or more time.....	1,025	800
Number of gross tons mined to each life loss.....	353,407	319,524
Number of employees to each life lost.....	454	441
Number of deaths per 1,000 employed.....	2.21	2.26
Number of gross tons mined to each man injured.....	60,338	71,893
Number of employees to each man injured.....	77	99

### CLASSIFICATION OF MINES

Table 1 shows the number of mines, men and tons for all mines, shipping mines and local mines.

There was a decrease of nine in the number of shipping mines and of thirty in local mines. The increase in output for all mines was 4,331,964 tons.

TABLE 1—MINES, MEN AND TONS, SHIPPING AND LOCAL MINES, BY DISTRICTS—1913

Districts	All mines			Shipping mines			Local mines		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
First.....	51	4,857	2,250,206	21	4,395	1,972,525	30	462	277,681
Second.....	99	4,704	2,392,316	14	4,230	2,208,343	85	474	183,973
Third.....	94	5,165	3,109,287	33	4,820	2,952,056	61	345	157,231
Fourth.....	191	3,742	2,575,195	19	3,235	2,397,374	172	507	177,821
Fifth.....	67	7,096	5,580,378	36	6,827	5,406,941	31	269	173,437
Sixth.....	40	7,862	6,293,685	35	7,739	6,209,181	5	123	84,504
Seventh.....	27	7,644	7,632,256	22	7,614	7,620,343	5	30	11,913
Eighth.....	40	7,621	6,347,492	29	7,531	6,289,805	11	90	57,687
Ninth.....	65	5,707	4,740,212	50	5,572	4,637,552	15	135	102,660
Tenth.....	65	4,918	3,365,176	40	4,826	3,317,383	25	92	47,793
Eleventh.....	53	10,974	9,849,807	37	10,913	9,818,724	16	61	31,083
Twelfth.....	48	9,207	7,710,194	35	9,153	7,685,189	13	54	25,005
The State..	840	79,497	61,846,204	371	76,855	60,515,416	469	2,642	1,330,788

Table 2 gives the percentages by districts of the mines, men and tons for all mines, and of shipping and local mines.

This year the shipping mines are 44.17 per cent of the whole number and they produced 97.85 per cent of the total tonnage and furnished work for 96.68 per cent of the men employed.

TABLE 2—PERCENTAGES OF MINES, MEN AND TONS, ALL MINES AND OF SHIPPING AND LOCAL MINES—1913

Districts	Percentages								
	All mines			Shipping mines			Local mines		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
First.....	6.07	6.11	3.64	41.17	90.49	87.66	58.83	9.51	12.34
Second.....	11.79	5.91	3.87	14.14	89.92	92.31	85.86	10.08	7.69
Third.....	11.19	6.50	5.02	35.11	93.32	94.94	64.89	6.68	5.06
Fourth.....	22.74	4.71	4.16	9.95	86.45	93.09	90.05	13.55	6.91
Fifth.....	7.98	8.93	9.02	53.73	96.21	96.89	46.27	3.79	3.11
Sixth.....	4.76	9.89	10.18	87.50	98.44	98.66	12.50	1.56	1.34
Seventh.....	3.21	9.61	12.34	81.48	99.61	99.85	18.52	0.39	0.15
Eighth.....	4.76	9.59	10.26	72.50	98.82	99.09	27.50	1.18	0.91
Ninth.....	7.74	7.18	7.67	76.92	97.63	97.83	23.08	2.37	2.17
Tenth.....	7.74	6.19	5.44	61.53	98.11	98.58	38.47	1.89	1.42
Eleventh.....	6.31	13.80	15.93	69.81	99.44	99.68	30.19	0.56	0.32
Twelfth.....	5.71	11.58	12.47	72.92	99.41	99.68	27.08	0.59	0.32
The State.....	100.00	100.00	100.00	44.17	96.68	97.85	55.83	3.32	2.15

Table 3. Here is shown, for a series of twenty-one years, the number of mines, men employed and tons produced. The per cent of increase or decrease, in whole numbers and percentages—1913 over 1893—is shown at the bottom of the table.



TABLE 3—ALL MINES, MEN AND TONS AND SHIPPING AND LOCAL MINES FOR TWENTY-ONE YEARS

Year	Total			Shipping			Local		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
1893.....	788	35,390	19,949,564	310	28,737	19,257,682	478	6,653	691,882
1894.....	836	38,477	17,113,576	319	31,243	16,106,613	517	7,234	1,006,963
1895.....	874	38,630	17,735,864	319	31,174	16,578,890	555	7,456	1,156,974
1896.....	862	37,032	19,786,626	330	28,185	18,263,056	532	8,847	1,523,570
1897.....	853	33,788	20,072,758	310	31,322	19,386,573	543	2,466	686,185
1898.....	881	35,026	18,599,299	329	32,297	17,655,561	552	2,729	943,738
1899.....	889	36,991	23,434,445	323	34,307	22,531,356	566	2,684	903,089
1900.....	920	39,384	25,153,929	323	36,298	24,056,996	597	3,086	1,096,933
1901.....	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503
1902.....	915	46,005	30,021,300	332	42,807	28,824,750	583	3,198	1,196,550
1903.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863
1904.....	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380
1905.....	990	59,230	37,183,374	397	55,743	35,956,543	593	3,487	1,226,831
1906.....	1,018	62,283	38,317,581	419	58,851	37,133,811	599	3,432	1,194,770
1907.....	933	66,714	47,798,621	411	63,154	46,436,839	522	3,560	1,361,782
1908.....	922	70,841	49,272,452	407	67,407	47,809,730	515	3,371	1,462,722
1909.....	886	72,733	49,163,710	384	69,518	47,958,562	502	3,215	1,205,148
1910.....	881	74,634	48,717,853	390	71,520	47,225,201	491	3,114	1,492,652
1911.....	845	77,410	50,165,099	387	74,508	48,758,657	458	2,902	1,406,442
1912.....	879	79,411	57,514,240	380	76,407	56,096,695	499	3,004	1,417,545
1913.....	840	79,497	61,846,204	371	76,855	60,515,416	469	2,642	1,330,788
Increase.....	52	44,107	41,896,640	61	48,118	41,257,734	*9	*4,011	638,906
Percentage of increase.....	6.60	124.63	210.01	19.68	167.44	214.24	*1.88	*60.29	92.34

\* Decrease.

Table 4 gives the whole number of mines, men and tons for twenty-one years and the per cent that the shipping and local mines bear to the whole number each year of the period.

TABLE 4—MINES, MEN AND TONS, WITH PERCENTAGES OF SHIPPING AND LOCAL MINES FOR TWENTY-ONE YEARS—1893-1913.

Years	Total—all mines			Percentages					
				Shipping			Local		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
1893.....	788	35,390	19,949,564	39.34	81.20	96.53	60.66	18.80	3.47
1894.....	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90
1895.....	855	38,630	17,735,864	36.50	80.70	93.48	63.50	19.30	6.52
1896.....	862	37,032	19,786,626	36.62	76.11	96.26	63.38	23.89	3.47
1897.....	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1898.....	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1899.....	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1900.....	920	39,384	25,153,929	35.11	92.16	95.64	64.89	7.84	4.36
1901.....	915	44,143	26,635,319	36.17	92.71	95.84	63.83	7.29	4.16
1902.....	915	46,005	30,021,300	36.28	93.05	96.01	63.72	6.95	3.99
1903.....	933	49,814	34,955,400	37.83	93.34	96.34	62.17	6.66	3.66
1904.....	932	54,774	37,077,897	40.77	93.81	96.50	59.23	6.19	3.50
1905.....	990	59,230	37,183,374	40.10	94.11	96.70	59.90	5.89	3.30
1906.....	1,018	62,283	38,317,581	41.16	94.49	96.88	58.84	5.51	3.12
1907.....	933	66,714	47,798,621	44.05	94.66	97.15	55.95	5.34	2.85
1908.....	922	70,841	49,272,452	44.14	95.24	97.03	55.86	4.76	2.97
1909.....	886	72,733	49,163,710	43.34	95.58	97.55	56.66	4.42	2.45
1910.....	881	74,634	48,717,853	44.27	95.83	96.94	55.73	4.17	3.06
1911.....	845	77,410	50,165,099	45.80	96.25	97.20	54.20	3.75	2.80
1912.....	879	79,411	57,514,240	43.23	96.22	97.52	56.77	3.78	2.48
1913.....	840	79,497	61,846,204	44.17	96.68	97.85	55.83	3.32	2.15



## GROUPING OF MINES

Table 5. A grouping of the mines into six classes is here given and shows 114 mines in the class of largest producers. This is a gain of nine mines over last year. These mines produced more than two-thirds of the total product and increased the output of this class of mines 6,356,599 tons over last year.

TABLE 5—GROUPING OF MINES BY TONNAGE AND DISTRICTS—1913

Districts	Tonnage and mines producing—											
	Under 1,000		1,000 but under 10,000		10,000 but under 50,000		50,000 but under 100,000		100,000 but under 200,000		200,000 and over	
	No.	Tons	No.	Tons	No.	Tons	No.	Tons	No.	Tons	No.	Tons
First.....	8	4,315	18	53,514	8	216,258	8	553,044	7	1,010,404	2	412,671
Second.....	39	15,436	47	151,668	3	39,123	4	557,010	6	557,010	6	1,629,079
Third.....	33	14,675	28	105,805	17	439,431	6	418,335	6	837,806	4	1,293,235
Fourth.....	120	49,631	53	133,259	2	63,301	5	355,937	7	1,053,441	4	919,626
Fifth.....	10	4,290	20	92,902	13	419,079	6	409,732	10	1,358,309	8	3,296,066
Sixth.....	-----	-----	3	6,779	4	75,442	11	859,380	12	1,627,026	10	3,725,058
Seventh.....	2	708	4	18,623	2	47,515	2	161,306	2	352,611	15	7,051,493
Eighth.....	2	1,250	6	15,468	6	131,757	5	396,499	9	1,457,243	12	4,345,275
Ninth.....	1	561	15	72,682	28	723,059	11	780,066	4	536,998	6	2,626,846
Tenth.....	9	4,766	23	82,399	15	424,481	6	453,792	5	696,518	7	1,703,220
Eleventh.....	9	4,699	7	24,486	6	133,823	2	153,828	6	724,409	23	8,808,562
Twelfth.....	6	2,384	7	22,621	4	89,466	4	344,557	10	1,580,838	17	5,670,328
The State..	239	102,715	231	780,206	108	2,802,735	66	4,886,476	82	11,792,613	114	41,481,459

Table 6 classifies the mines, men and tons into three groups and shows the per cent each group is of the whole number.

TABLE 6—GROUPING OF MINES, MEN AND TONS INTO THREE CLASSES, BY DISTRICTS—ALL MINES

Districts	Less than 50,000 tons			50,000 tons and less than 100,000			100,000 tons and over		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
First.....	34	822	274,087	8	1,352	553,044	9	2,683	1,423,075
Second.....	89	565	206,227	-----	-----	-----	10	4,139	2,186,089
Third.....	78	1,143	559,911	6	705	418,335	10	3,317	2,131,041
Fourth.....	175	630	246,191	5	715	355,937	11	2,397	1,973,067
Fifth.....	43	954	516,271	6	593	409,732	18	5,549	4,654,375
Sixth.....	7	260	82,221	11	1,487	859,380	22	6,115	5,352,084
Seventh.....	8	214	66,846	2	314	161,306	17	7,116	7,404,104
Eighth.....	14	265	148,475	5	661	396,499	21	6,695	5,802,518
Ninth.....	44	1,534	796,302	11	1,170	780,066	10	3,003	3,163,844
Tenth.....	47	1,344	511,646	6	819	453,792	12	2,755	2,399,738
Eleventh.....	22	380	163,008	2	201	153,828	29	10,393	9,532,971
Twelfth.....	17	231	114,471	4	626	344,557	27	8,350	7,251,166
The State..	578	8,342	3,685,656	66	8,643	4,886,476	196	62,512	53,274,072
Percentages....	68.81	10.49	5.96	7.86	10.87	7.90	23.33	78.64	86.14

Table 7 shows the percentages of the items in each of the three groups given in Table 6.

TABLE 7—PERCENTAGES OF MINES, MEN AND TONS, GROUPED INTO THREE CLASSES, BY DISTRICTS

Districts	Percentages of mines, men and tons—mines producing—								
	Less than 50,000 tons			50,000 and less than 100,000			100,000 and over		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
First.....	5.90	9.85	7.44	12.12	15.64	11.32	4.59	4.29	2.67
Second.....	15.40	6.77	5.59	.....	.....	.....	5.10	6.62	4.10
Third.....	13.49	13.70	15.19	9.09	8.16	8.56	5.10	5.31	4.00
Fourth.....	30.27	7.55	6.68	7.58	8.27	7.28	5.61	3.83	3.70
Fifth.....	7.43	11.44	14.01	9.09	6.86	8.39	9.18	8.88	8.74
Sixth.....	1.21	3.12	2.23	16.67	17.20	17.59	11.22	9.78	10.05
Seventh.....	1.38	2.56	1.81	3.03	3.63	3.30	8.68	11.38	13.90
Eighth.....	2.42	3.18	4.03	7.58	7.65	8.11	10.72	10.71	10.89
Ninth.....	7.61	18.39	21.61	16.67	13.54	15.96	5.10	4.72	5.94
Tenth.....	8.13	16.11	13.88	9.09	9.48	9.29	6.12	4.49	4.50
Eleventh.....	3.82	4.55	4.42	3.03	2.35	3.15	14.80	16.63	17.90
Twelfth.....	2.94	2.78	3.11	6.05	7.24	7.05	13.78	13.36	13.61
The State.....	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 8 classifies the mines according to tonnage and shows the number of mines, men and tons in each class.

TABLE 8—CLASSIFICATION OF MINES AS TO TONNAGE, WITH PERCENTAGES OF MINES, MEN AND TONS IN EACH CLASS—1913

Mines producing—	Number of mines	Number of men	Tons	Percentages of—		
				Mines	Men	Tons
Less than 1,000 tons.....	239	568	102,715	28.45	0.75	0.17
1,000 and less than 10,000.....	231	2,009	780,206	27.50	2.37	1.26
10,000 and less than 50,000.....	108	5,765	2,802,735	12.86	7.37	4.53
50,000 and less than 100,000.....	66	8,643	4,886,476	7.86	10.75	7.90
100,000 and less than 200,000.....	82	17,282	11,792,613	9.76	21.74	19.07
200,000 and over.....	114	45,230	41,481,459	13.57	57.02	67.07
Total.....	840	79,497	61,846,204	100.00	100.00	100.00

Table 9. In this table is shown a grouping of the mines by tonnage for a series of thirty-one years. The bottom line shows the increase or decrease of 1913 over 1883 in the number of mines in each group.

TABLE 9—NUMBER OF MINES IN SPECIFIED GROUPS OF TONNAGE FOR A SERIES OF THIRTY-ONE YEARS—1883-1913

Year	Number of mines producing—						Total mines
	Under 1,000 tons	1,000 and under 10,000 tons	10,000 and under 50,000 tons	50,000 and under 100,000 tons	100,000 and under 200,000 tons	200,000 tons and over	
1883.....	209	233	133	39	10	15	639
1884.....	262	273	148	38	16	4	741
1885.....	286	290	143	40	13	6	778
1886.....	316	280	135	44	11	3	789
1887.....	320	278	141	42	18	2	801
1888.....	327	272	151	47	20	5	822
1889.....	321	316	139	55	20	3	854
1890.....	398	301	155	54	24	4	936
1891.....	402	260	161	52	37	6	918
1892.....	332	239	151	65	46	6	839
1893.....	282	232	140	75	47	12	788
1894.....	312	252	161	61	44	6	836
1895.....	319	276	145	61	45	9	855
1896.....	330	280	128	63	45	16	862
1897.....	346	250	120	79	41	17	853
1898.....	351	244	151	86	42	7	881
1899.....	346	261	123	77	57	25	889
1900.....	340	295	123	70	65	27	920
1901.....	313	308	124	79	58	33	915
1902.....	314	263	152	76	72	38	915
1903.....	313	293	120	75	87	45	933
1904.....	301	275	140	72	98	46	932
1905.....	321	299	147	83	88	52	990
1906.....	336	282	167	89	97	47	1,018
1907.....	260	262	145	91	95	80	933
1908.....	248	256	146	98	92	82	922
1909.....	270	239	134	66	90	87	886
1910.....	261	239	125	87	94	75	881
1911.....	235	213	138	82	101	76	845
1912.....	266	228	119	70	91	105	879
1913.....	239	231	108	66	82	114	840
Increase in 31 years	30	*2	*25	27	72	99	201

\* Decrease.

Table 10 shows the percentages of the items given in Table 9.

TABLE 10—PERCENTAGE OF MINES IN SPECIFIED GROUPING OF TONNAGE FOR A SERIES OF THIRTY-ONE YEARS

Year	Total	Percentages of mines producing—					
		Under 1,000 tons	1,000 and under 10,000 tons	10,000 and under 50,000 tons	50,000 and under 100,000 tons	100,000 and under 200,000 tons	200,000 tons and over
1883.....	639	32.71	36.47	20.81	6.10	1.56	2.35
1884.....	741	35.36	36.84	19.97	5.13	2.16	.54
1885.....	778	36.76	37.27	18.38	5.14	2.32	.13
1886.....	789	40.05	35.49	17.11	5.58	1.39	.38
1887.....	801	39.95	34.71	17.60	5.24	2.25	.25
1888.....	822	39.79	33.09	18.37	5.71	2.43	.61
1889.....	854	37.59	37.00	16.28	6.44	2.34	.35
1890.....	936	42.52	32.16	16.56	5.77	2.56	.43
1891.....	918	43.79	28.32	17.54	5.67	4.03	.65
1892.....	839	39.69	29.44	17.76	7.03	4.89	1.19
1893.....	788	35.91	29.44	16.24	10.92	5.71	1.78
1894.....	836	37.08	29.07	19.62	8.25	5.26	.72
1895.....	855	36.43	33.29	16.65	7.33	5.25	1.05
1896.....	862	38.90	30.66	14.88	8.35	5.61	1.60
1897.....	853	40.56	29.31	14.07	9.26	4.81	1.99
1898.....	881	39.84	27.70	17.14	9.76	4.77	.79
1899.....	889	38.92	29.36	13.84	8.66	6.41	2.81
1900.....	920	36.96	32.07	13.37	7.61	7.06	2.93

TABLE 10—*Concluded*

Year	Total	Percentages of mines producing—					
		Under 1,000 tons	1,000 and under 10,000 tons	10,000 and under 50,000 tons	50,000 and under 100,000 tons	100,000 and under 200,000 tons	200,000 tons and over
1901.....	915	34.21	33.66	13.55	8.63	6.34	3.61
1902.....	915	34.32	28.74	16.61	8.31	7.87	4.15
1903.....	933	33.55	31.40	12.86	8.04	9.33	4.82
1904.....	932	32.30	29.50	15.02	7.73	10.51	4.94
1905.....	990	32.43	30.20	14.85	8.38	8.89	5.25
1906.....	1,018	33.01	27.70	16.40	8.74	9.53	4.62
1907.....	933	27.82	28.08	15.56	9.76	10.20	8.58
1908.....	922	26.90	27.77	15.84	10.63	9.97	8.82
1909.....	886	30.47	26.98	15.12	7.45	10.16	9.82
1910.....	881	29.63	27.12	14.19	9.88	10.68	8.50
1911.....	845	27.81	25.21	16.33	9.71	11.95	8.99
1912.....	879	30.27	25.95	13.54	7.77	10.53	11.95
1913.....	840	28.45	27.50	12.86	7.86	9.76	13.57
Percentage increase in 31 years.....	31.46	14.35	*0.86	*18.80	72.82	720.00	660.00

\* Decrease.

Table 11 is a classification of the mines by output for twenty-two years. The bottom line gives the increase or decrease of each class of the last year over the first. Compared with last year there is a very large increase in the product of the mines of the largest capacity, while in all others, except those producing 1,000 and less than 10,000 tons, a marked decrease is seen.

TABLE 11—GROUPING OF MINES BY TONNAGE FOR A SERIES OF TWENTY-TWO YEARS

Year	Tonnage of mines producing—					
	Under 1,000 tons	1,000 and under 10,000	10,000 and under 50,000	50,000 and under 100,000	100,000 and under 200,000	200,000 and over
	Tons	Tons	Tons	Tons	Tons	Tons
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,937	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	838,989	3,393,827	5,795,953	8,008,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405
1904.....	126,397	934,042	3,602,660	5,200,551	13,763,975	13,480,272
1905.....	129,430	993,394	3,852,565	5,868,103	12,158,090	14,181,792
1906.....	127,232	949,073	5,097,972	6,116,018	13,462,256	12,565,030
1907.....	108,875	827,337	3,907,170	6,600,264	13,376,164	22,978,809
1908.....	95,427	793,236	3,879,000	7,130,739	13,181,385	24,192,665
1909.....	96,124	782,850	3,612,391	4,939,139	12,609,581	27,113,625
1910.....	107,266	932,300	3,305,177	6,353,951	13,911,460	24,117,699
1911.....	93,573	728,936	3,901,966	6,000,914	14,455,906	24,983,804
1912.....	111,734	771,906	3,047,090	5,134,560	13,324,090	35,124,860
1913.....	102,715	780,206	2,802,735	4,886,476	11,792,614	41,481,459
Increase (+) or decrease (—) in 22 years.....	—45,062	—277,872	—331,524	+593,004	+5,937,523	+39,107,860

Table 12 gives the total tonnage for each year from 1892 to 1913, with the per cent produced by each group and the per cent of increase or decrease of this year over 1892.

TABLE 12—PERCENTAGES OF TONS PRODUCED BY SPECIFIED GROUPING OF TONNAGE FOR TWENTY-TWO YEARS

Year	Total tons	Percentage of tons produced by mines producing—					
		Under 1,000	1,000 and under 10,000	10,000 and under 50,000	50,000 and under 100,000	100,000 and under 200,000	200,000 and over
1892.....	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893.....	19,949,564	.61	3.64	15.70	30.98	31.54	17.53
1894.....	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1895.....	17,735,864	.85	4.88	20.35	24.91	35.79	13.22
1896.....	19,786,626	.72	4.08	16.51	25.52	33.14	20.03
1897.....	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898.....	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899.....	23,434,445	.59	3.98	12.28	23.97	31.76	28.02
1900.....	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901.....	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902.....	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903.....	34,955,400	.36	2.49	9.72	15.58	35.44	36.41
1904.....	37,077,897	.34	2.52	9.72	14.03	37.09	36.30
1905.....	37,183,374	.35	2.67	10.36	15.78	32.70	38.14
1906.....	38,317,581	.33	2.48	13.31	15.96	25.13	32.79
1907.....	47,798,621	.23	1.73	8.17	13.81	27.98	48.08
1908.....	49,272,452	.11	1.70	7.87	14.48	26.75	49.10
1909.....	49,163,710	.22	1.59	7.35	10.05	25.64	55.15
1910.....	48,717,853	.20	1.91	6.79	13.04	28.56	49.50
1911.....	50,165,099	.19	1.46	7.78	11.96	28.81	49.80
1912.....	57,514,240	.20	1.34	5.47	8.76	23.16	61.07
1913.....	61,846,204	.17	1.26	4.53	7.90	19.07	67.07
Percentages of increase (+) or decrease (—), 22 years.	+246.24	—30.49	—26.26	—32.27	+13.81	+101.23	+1,647.62

Table 13 is a list of 114 mines of the largest output, showing the name of the operators, the location of the mines, number of men employed, number of days worked, number of tons produced and the average daily production.

TABLE 13—MINES FROM WHICH MORE THAN 200,000 TONS OF COAL HAVE BEEN DELIVERED DURING THE YEAR 1913

No.	Companies	Location	Men	Days	Tons	Average tons per day
1	New Staunton Coal Co., No. 1.....	Livingston.....	590	212	848,715	4,003
2	Superior Coal Co., No. 3.....	Gillespie.....	675	216	837,834	3,879
3	Superior Coal Co., No. 2.....	do.....	665	215	828,288	3,853
4	Bunsen Coal Co., Verm.....	Westville.....	709	282	792,315	2,810
5	St. Louis and O'Fallon Coal Co., No. 2.....	E. St. Louis.....	612	233	713,381	3,062
6	Superior Coal Co., No. 1.....	Gillespie.....	659	212	681,852	3,216
7	Bunsen Coal Co., Kelly No. 14.....	Westville.....	665	277	669,307	2,416
8	Consolidated Coal Co., No. 14.....	Staunton.....	515	217	651,229	3,001
9	Ohio Valley M. Co., No. 8.....	W. Frankfort.....	510	231	616,531	2,669
10	Consolidated Coal Co., No. 17.....	Collinsville.....	373	233	615,318	2,641
11	Zeigler Dist. Col. Co., N. W.....	Christopher.....	424	256	603,187	2,356
12	Bell and Zoller M. Co., No. 1.....	Zeigler.....	585	247	568,844	2,303
13	Saline Co. Coal Co., No. 2.....	Ledford.....	398	276	552,064	2,000
14	Chi., Wilm. and Verm. Coal Co., No. 1.....	Thayer.....	470	212	551,787	2,603
15	Peabody Coal Co., No. 14.....	Wib.....	555	214	551,772	2,578
16	Madison Coal Corp., No. 9.....	Dawnline.....	550	217	544,369	2,509
17	Shoal Creek Coal Co., No. 1.....	Faxaria.....	505	245	542,473	2,232

TABLE 13—Continued

No.	Companies	Location	Men	Days	Tons	Average tons per day
18	Peabody Coal Co., No. 3	Marion	474	241	537, 195	2, 229
19	United Coal M. Co., No. 1	Christopher	450	234	535, 672	2, 293
20	Mt. Olive and Staunton Coal Co., No. 2	Staunton	547	146	518, 010	3, 548
21	Big Muddy Coal & Iron Co., No. 8	Clifford	547	194	511, 155	2, 584
22	O'Gara Coal Co., No. 9	Harrisburg	539	222	504, 557	2, 273
23	Ill. Midland Coal Co., No. 5	Pawnee	390	253	488, 445	1, 931
24	Sesser Coal Co.	Sesser	375	225	471, 408	2, 095
25	Saline Co. Coal Co., No. 3	Harrisburg	349	284	467, 598	1, 646
26	Consolidated Coal Co., No. 15	Mt. Olive	451	177	460, 201	2, 600
27	St. Paul Coal Co., No. 1	Granville	780	280	451, 428	1, 612
28	Johnston City Coal Co., No. 1	Johnston City	478	240	439, 868	1, 833
29	Prairie Coal Co.	Belleville	335	248	420, 363	1, 695
30	W. P. Rend C. & C. Co., No. 2	Herrin	400	212	420, 241	1, 935
31	Bunsen Coal Co., No. 2	Westville	431	282	418, 694	1, 485
32	Benton Coal Co.	Benton	454	207	406, 275	1, 963
33	Madison Coal Corp., No. 6	Divernon	476	153	403, 284	2, 636
34	Royal Col. Co., No. 1	Virdeu	464	205	395, 652	1, 930
35	Peabody Coal Co., No. 15	Taylor Springs	389	193	395, 003	2, 047
36	Southern Coal, Coke & M. Co., No. 8	Belleville	331	215	391, 316	1, 820
37	Hart-Williams Coal Co., No. 1	Benton	463	173	391, 119	2, 261
38	Jones and Adams Coal Co., Peerless	Springfield	436	185	390, 952	2, 113
39	Marion County Coal Co.	Centralia	422	203	390, 106	1, 922
40	Springfield Coal M. Co., No. 2	Riverton	420	194	389, 057	2, 005
41	Bunsen Coal Co., No. 3	Westville	378	274	386, 310	1, 410
42	Lumagli Coal Co., No. 2	Collinsville	439	175	337, 798	2, 159
43	Black Diamond Coal Co., B. D.	Auburn	333	216	368, 907	1, 708
44	Southern Coal Coke & Mining Co., No. 9	New Baden	409	186	367, 619	1, 976
45	Chi. and Carterville Coal Co., A	Herrin	459	175	364, 888	2, 085
46	Donk Bro's Coal & Coke Co., No. 2	Maryville	472	174	361, 169	2, 076
47	Wasson Coal Co., No. 1	Wasson	384	255	357, 949	1, 404
48	Sunnyside Coal Co., No. 1	Herrin	452	201	355, 730	1, 770
49	Girard Col. Co., No. 5	Girard	350	221	353, 002	1, 597
50	Hillsboro Coal Co.	Hillsboro	234	254	351, 723	1, 385
51	O'Gara Coal Co., No. 3	Harrisburg	457	206	343, 821	1, 669
52	Christian County Coal Co.	Taylorville	380	165	341, 112	2, 067
53	St. Paul Coal Co., No. 2	Cherry	494	293	336, 511	1, 149
54	Woodside Coal Co.	Springfield	347	244	333, 566	1, 367
55	Franklin Coal & Coke Co.	Royalton	507	190	331, 807	1, 746
56	Ill. Midland Coal Co., No. 6	Sherman	379	159	314, 646	1, 979
57	Madison Coal Corp., No. 8	Dewmaine	350	231	312, 287	1, 352
58	United Coal Mining Co., No. 2	Buckner	343	217	310, 633	1, 431
59	Donk Bro's Coal & Coke Co., No. 1	Donkville	339	169	309, 832	1, 833
60	Spring Valley Coal Co., No. 5	Dalzell	579	229	306, 756	1, 340
61	B. F. Berry Coal Co., No. 1	Granville	450	219	301, 301	1, 376
62	Spring Valley Coal Co., No. 1	Spring Valley	612	227	296, 031	1, 304
63	Western Coal Mining Co., Bush	Bush	338	243	294, 351	1, 211
64	O'Gara Coal Co., No. 10	Eldorado	340	225	294, 246	1, 308
65	Toluca Coal Co., No. 1	Toluca	648	301	290, 523	965
66	So. Ill. Coal & Coke Co., O. R.	Herrin	215	255	283, 496	1, 112
67	Southern Coal, Coke & M. Co., L. O. No. 7	Belleville	269	202	283, 079	1, 401
68	Madison Coal Corp., No. 5	Mt. Olive	306	202	279, 290	1, 383
69	O'Gara Coal Co., No. 14	Ledford	433	204	277, 803	1, 362
70	Security Coal & Mining Co., No. 1	Duquoin	371	189	275, 674	1, 459
71	W. P. Rend Col. Co., No. 1	Rend	297	230	274, 225	1, 192
72	Eldorado Coal Mining Co., No. 1	Eldorado	273	253	272, 512	1, 077
73	Peabody Coal Co., No. 12	Witt	329	174	271, 839	1, 562
74	Willis Coal & Mining Co., No. 6	Perey	215	220	269, 110	1, 223
75	O'Gara Coal Co., No. 4	Harrisburg	383	158	258, 006	1, 696
76	O'Gara Coal Co., No. 15	Carriers Mills	354	200	267, 486	1, 337
77	Carterville Coal Co., Burr	Carterville	321	170	266, 107	1, 565
78	O'Gara Coal Co., No. 1	Harrisburg	345	232	265, 664	1, 145
79	Madison Coal Corp., No. 2	Glen Carbon	312	184	265, 504	1, 443
80	Big Creek Coal Co., No. 2	St. David	284	262	265, 314	1, 013
81	Ill. Third Vein Coal Co., No. 1	Ladd	583	253	261, 685	1, 034
82	Springfield Coal Mining Co., No. 5	Springfield	304	204	259, 768	1, 273
83	Big Muddy Coal & Iron Co., No. 9	Murphysboro	224	139	256, 240	1, 843
84	Big Muddy Coal & Iron Co., No. 7	Herrin	462	116	250, 082	2, 156
85	Clark Coal & Coke Co., No. 2	Peoria	291	224	249, 983	1, 116
86	Willis Coal & Mining Co., No. 1	Willisville	226	219	244, 538	1, 117
87	West-Va. Coal Co., No. 1	Marion	190	210	244, 154	1, 163
88	Glenridge Coal Co., No. 1	Virdeu	275	176	242, 122	1, 376
89	Paradise Coal Co., Paradise	Duquoin	325	154	241, 483	1, 568
90	Springfield Coal Mining Co., No. 6	Taylorville	259	211	240, 247	1, 139
91	Stonington Coal Co.	do.	275	186	239, 938	1, 290
92	Breese Trenton Mining Co.	Breese	224	250	236, 885	948
93	Taylor Coal Co., No. 2	Herrin	240	168	235, 884	1, 404



TABLE 13—*Concluded*

No.	Companies	Location	Men	Days	Tons	Average tons per day
94	North Breese Coal Mining Co.....	Breese.....	281	200	235, 096	1, 175
95	DeCamp Coal Mining Co., No. 1.....	Staunton.....	195	247	232, 974	943
96	Maplewood Col. Co., No. 2.....	Farmington.....	279	212	229, 742	1, 084
97	Chl., Springfield Coal Co.....	Springfield.....	267	161	224, 646	1, 395
98	Southern Ill. C. & C. Co., P. R.....	Herrin.....	213	267	221, 448	829
99	Majestic Coal & Coke Co., Majestic.....	Duquoin.....	240	114	215, 730	1, 892
100	Monmouth Coal Mining Co., No. 1.....	Brereton.....	280	206	215, 318	1, 045
101	Spring Valley Coal Co., No. 3.....	Spring Valley.....	542	186	215, 283	1, 157
102	Spring Valley Coal Co., No. 4.....	Seatonville.....	506	219	212, 813	972
103	Alden Coal Co., No. 6.....	Norris.....	281	189	209, 252	1, 107
104	Vivian Coal Co.....	Greenridge.....	324	174	209, 213	1, 202
105	LaSalle County Carbon Coal Co., No. 5.....	LaSalle.....	379	219	208, 449	952
106	Dering Coal Co., No. 2.....	Westville.....	350	173	208, 143	1, 203
107	Carterville & Herrin Coal Co., No. 1.....	Herrin.....	237	221	207, 728	940
108	Dering Coal Co., No. 11.....	W. Frankfort.....	273	160	205, 707	1, 286
109	Oglesby Coal Co.....	Oglesby.....	426	241	204, 221	847
110	Joe Taylor Coal Co., St. Ellen.....	O'Fallon.....	266	143	203, 389	1, 422
111	Chi. and Sandoval Coal Co., No. 2.....	Sandoval.....	229	208	201, 567	969
112	Big Muddy Fuel Co., W. V.....	Johnston City.....	247	205	201, 543	983
113	Ill. Hocking Washed Coal Co.....	Marion.....	288	196	201, 250	1, 027
114	Centralia Coal Co., No. 3.....	Centralia.....	249	130	200, 445	1, 550
Total.....			45, 230	212	41, 481 459	1, 720

Table 14 shows the same items as Table 13.

TABLE 14—MINES FROM WHICH MORE THAN 100,000 TONS OF COAL AND LESS THAN 200,000 HAVE BEEN DELIVERED DURING THE YEAR 1913

No.	Companies	Location	Men	Days	Tons	Average tons per day
1	Latham Mining Co., N.....	Lincoln.....	260	197	197, 690	1, 003
2	Penwell Coal Co.....	Pana.....	263	137	197, 627	1, 443
3	Standard Col. Co., McC.....	Johnston City.....	220	184	197, 589	1, 074
4	Odin Coal Co.....	Odin.....	213	246	197, 058	801
5	Peabody Coal Co., No. 2.....	Marion.....	224	176	192, 259	1, 092
6	Hafer Washed Coal Co., No. 3.....	Carterville.....	217	136	191, 940	1, 411
7	Big Creek Coal Co., No. 4.....	Dunfermline.....	208	213	188, 834	887
8	Donk Bro's Coal & Coke Co., No. 3.....	Troy.....	351	174	187, 125	1, 075
9	Chi. Big Muddy Coal Co., No. 1.....	Marion.....	235	157	186, 837	1, 190
10	Consolidated Coal Co., No. 8.....	Mt. Olive.....	182	205	185, 541	905
11	Kerns-Donnewald Coal Co.....	Worden.....	209	204	185, 092	907
12	Sangamon Coal Co.....	Springfield.....	259	192	175, 356	913
13	Capitol Coal Co., No. 2.....	do.....	277	143	175, 266	1, 226
14	LaSalle County Carbon Coal Co., No. 1.....	LaSalle.....	345	225	170, 736	759
15	Taylor Coal Co., No. 1.....	Herrin.....	176	142	170, 400	1, 200
16	Canton Coal Mining Co.....	Canton.....	194	248	169, 474	683
17	Madison Coal Corp., No. 4.....	Glen Carbon.....	285	138	167, 813	1, 216
18	Centralia Coal Co., No. 2.....	Centralia.....	272	156	167, 516	1, 074
19	Peabody Coal Co., No. 11.....	Hillsboro.....	240	130	167, 070	1, 285
20	Pana Coal Co., No. 1.....	Pana.....	226	159	166, 564	1, 048
21	Dering Coal Co., No. 4.....	Steelton.....	260	165	164, 720	998
22	Wolschlog Co-oper. Coal Co.....	Peoria.....	140	263	164, 570	626
23	Mathenssen Hegeler Zinc Co.....	LaSalle.....	133	291	158, 940	546
24	Ritchey Coal Co., No. 1.....	Pinckneyville.....	153	272	158, 852	584
25	Duquoin Operating Co., Queen.....	Duquoin.....	227	101	158, 704	1, 573
26	Cora Coal Co., Cora.....	Springfield.....	218	172	158, 105	919
27	Coal Valley Mining Co., No. 3.....	Mathersville.....	183	207	157, 999	763
28	Marquette 3d Vein Coal Co., No. 1.....	Marquette.....	331	225	155, 609	692
29	LaSalle County Carbon Coal Co., LaSalle.....	LaSalle.....	363	224	153, 745	686
30	Simmons Coal Co.....	Canton.....	182	214	153, 655	718
31	St. Louis and O'Fallon Coal Co., No. 1.....	E. St. Louis.....	402	80	153, 461	1, 918
32	St. Louis and Carterville Coal Co., Dale.....	Herrin.....	198	195	151, 247	776

TABLE 14—*Concluded*

No.	Companies	Location	Men	Days	Tons	Average tons per day
33	Crescent Coal Co., No. 1.....	Peoria.....	220	203	149,153	735
34	Williamson County Coal Co., O. Mine.....	Johnston City.....	230	156	148,794	954
35	Big Muddy Mining Co., W. V.....	Hallidayboro.....	252	110	148,727	1,352
36	Tazewell Coal Co.....	Pekin.....	180	274	148,294	541
37	Centralia Coal Co., No. 4.....	Centralia.....	203	147	147,689	1,005
38	Eagle Mining Co.....	Canton.....	193	238	147,188	618
39	Tower Hill Coal Co.....	Tower Hill.....	210	191	145,756	763
40	Mt. Olive & Staunton Coal Co., No. 1.....	Staunton.....	334	87	144,981	1,666
41	Dering Coal Co., No. 3.....	Steelton.....	365	133	144,428	1,086
42	Big Creek Col. Co., No. 1.....	Eldorado.....	200	171	143,331	838
43	Chicago, Wilm. and Verm. Coal Co., No. 2.....	Streator.....	269	215	142,037	661
44	Brewster and Evans Co., Walbur.....	Poeria.....	140	278	139,893	503
45	Pocahontas Mining Co., No. 1.....	Pocahontas.....	165	168	139,783	832
46	Norris Coal Mining Co.....	Norris.....	217	191	139,253	729
47	Superior Coal Mining Co.....	Belleville.....	143	189	138,369	732
48	Chicago, Wilm. and Verm. Coal Co., No. 3.....	Streator.....	179	274	132,199	482
49	West End Coal Co.....	Springfield.....	202	169	132,164	782
50	Chicago, Wilm. and Verm. Coal Co., No. 1.....	S. Wilmington.....	309	165	129,125	783
51	Silver Creek Col. Co., No. 1.....	Farmington.....	128	218	128,867	589
52	Pond Creek Coal Co., Franklin.....	Herrin.....	193	171	126,867	742
53	Mo. and Ill. Coal Co., No. 4.....	Willisville.....	140	179	126,726	708
54	Star Coal Co., No. 3.....	Cuba.....	151	227	126,670	558
55	Dickerson Coal Co., Empire.....	Springfield.....	130	228	126,270	554
56	Tuxhorn Coal Co.....	do.....	191	170	125,911	741
57	O'Gara Coal Co., No. 12.....	Harrisburg.....	190	232	124,656	537
58	Alden Coal Co., No. 7.....	Mathersville.....	160	185	124,444	673
59	Kolb Coal Co., No. 2.....	Mascoutah.....	133	196	124,031	633
60	Chicago, Wilm. and Verm. Coal Co., No. 3.....	S. Wilmington.....	280	163	123,622	765
61	O'Gara Coal Co., No. 7.....	Carriers Mills.....	262	152	121,794	801
62	Suburban Coal Mining Co.....	Belleville.....	139	187	121,137	648
63	Roanoke Coal Co.....	Roanoke.....	223	165	120,868	733
64	Consolidated Coal Co. W. M.....	Breese.....	194	115	120,186	1,045
65	Coal Valley Mining Co., No. 2.....	Sherrard.....	149	237	118,958	502
66	Electriet Coal Co.....	Danville.....	198	299	116,428	389
67	O'Gara Coal Co., No. 8.....	Eldorado.....	234	172	116,032	675
68	Wenona Coal Co., No. 1.....	Wenona.....	245	214	115,028	538
69	Danville Coal Co.....	Catlin.....	141	242	112,738	466
70	Seranton & Big Muddy C. M. Co., No. 1.....	Marion.....	154	179	112,699	630
71	Auburn and Alton Coal Co.....	Auburn.....	153	176	112,554	640
72	Carroll and Franklin Co's Coal Co., No. 1.....	Hanaford.....	136	189	111,902	592
73	Lefton Coal Co.....	Auburn.....	137	160	111,025	694
74	Lincoln Mining Co., No. 1.....	Lincoln.....	158	158	108,672	688
75	O'Gara Coal Co., No. 7.....	Eldorado.....	222	123	106,694	867
76	Lovington Coal Mining Co., No. 1.....	Lovington.....	109	224	105,280	470
77	Manufacturing and Consumers Coal Co.....	Decatur.....	193	220	104,465	475
78	Jones Bro's Coal Mining Co., Eureka No. 2.....	Marissa.....	132	130	103,509	796
79	Cantrall Co-oper. Coal Co., Republic.....	Springfield.....	140	220	103,014	468
80	Chicago and Carterville Coal Co., B.....	Herrin.....	304	81	102,206	1,262
81	Williamsville Coal Co.....	Selbytown.....	168	168	100,999	601
82	Smith-Lohr Coal Mining Co.....	Pana.....	238	92	100,303	1,090
Total.....			17 282	185	11,792,613	776

Table 15 shows the number of mines and tons produced each year, for eighteen years, of those mines which had an output of 50,000 tons or more. There is a large increase this year of this class of mines.



TABLE 15—MINES PRODUCING 50,000 TONS AND LESS THAN 100,000; 100,000 TONS AND LESS THAN 200,000, AND 200,000 TONS AND MORE, WITH TOTAL MINES AND TONS, FOR EIGHTEEN YEARS

Year	Mines producing—						Total	
	50,000 tons and less than 100,000		100,000 tons and less than 200,000		More than 200,000			
	No. of mines.	Tons	No. of mines	Tons	No. of mines	Tons	No. of mines	Total tons
1896.....	63	5,049,694	45	6,557,545	16	3,962,435	124	15,569,674
1897.....	79	5,693,193	41	5,778,374	17	4,514,507	137	15,986,074
1898.....	86	6,351,513	42	5,898,596	7	1,709,457	135	13,959,566
1899.....	77	5,618,924	57	7,443,023	25	6,566,851	159	19,628,798
1900.....	70	5,009,326	65	8,995,963	27	6,769,328	162	20,774,617
1901.....	79	5,795,952	58	8,008,897	33	8,370,234	170	22,175,084
1902.....	76	5,376,350	72	9,923,538	38	10,101,867	186	25,401,755
1903.....	75	5,445,195	87	12,387,437	45	12,728,405	207	30,561,037
1904.....	72	5,200,551	98	13,763,975	46	13,460,272	216	32,424,798
1905.....	83	5,868,103	88	12,158,090	52	14,181,792	223	32,207,985
1906.....	89	6,116,018	97	13,462,256	47	12,565,030	233	32,143,304
1907.....	91	6,600,264	95	13,376,164	80	22,978,809	266	42,955,237
1908.....	98	7,130,739	92	13,181,385	82	24,192,665	272	44,504,789
1909.....	66	4,939,139	90	12,609,581	87	27,113,625	243	44,662,345
1910.....	87	6,353,951	94	13,911,460	75	24,117,699	256	44,383,110
1911.....	82	6,000,914	101	14,455,906	76	24,983,804	259	45,440,624
1912.....	70	5,134,560	91	13,324,090	105	35,124,860	266	53,583,510
1913.....	66	4,886,476	82	11,792,613	114	41,481,459	262	58,160,548

## GAIN OR LOSS IN MINES

Table 16 shows for twenty-four years the number of mines in operation at the beginning of the year, the number opened and the number closed during each year of the series.

TABLE 16—TOTAL NUMBER OF MINES AT THE BEGINNING OF EACH YEAR, NUMBER OPENED AND CLOSED EACH YEAR, ALSO THE GAIN AND LOSS FOR A SERIES OF TWENTY-FOUR YEARS

Year	Number of mines					Gain.	Loss
	At beginning of year	Opened or renewed	Total	Closed or suspended	At close of year		
1890.....	854	176	1,030	94	936	82	.....
1891.....	936	92	1,028	110	918	.....	18
1892.....	918	59	977	138	839	.....	7
1893.....	839	69	908	120	788	.....	51
1894.....	788	156	944	108	836	48	.....
1895.....	836	116	952	78	874	38	.....
1896.....	874	142	1,016	115	901	27	.....
1897.....	901	70	971	118	853	.....	48
1898.....	853	120	973	92	881	28	.....
1899.....	881	129	1,010	121	889	8	.....
1900.....	889	147	1,036	116	920	31	.....
1901.....	920	138	1,058	143	915	.....	43
1902.....	915	111	1,026	111	915	.....	.....
1903.....	915	109	1,024	91	933	18	.....
1904.....	933	109	1,042	110	932	.....	1
1905.....	932	168	1,100	110	990	58	.....
1906.....	990	151	1,141	123	1,018	28	.....
1907.....	1,018	88	1,106	173	933	.....	85
1908.....	933	97	1,030	108	922	.....	11
1909.....	922	81	1,003	117	886	.....	36
1910.....	886	86	972	91	881	.....	5
1911.....	881	184	1,065	220	845	.....	36
1912.....	845	176	1,021	142	879	34	.....
1913.....	879	86	965	125	840	.....	39

Table 17 is the same as Table 16, but is for shipping mines only.

TABLE 17—SHIPPING MINES, NUMBER OPENED AND CLOSED, ALSO GAIN AND LOSS FOR A SERIES OF TWENTY-THREE YEARS

Year	Number of mines					Gain	Loss
	At beginning of year	Opened or renewed	Total	Closed or suspended	At close of year		
1891.....	308	.....	30	.....	308	.....	.....
1892.....	308	.....	308	9	299	.....	9
1893.....	299	2	301	.....	301	2	.....
1894.....	301	18	319	.....	319	18	.....
1895.....	319	.....	319	.....	319	.....	.....
1896.....	319	3	322	.....	322	3	.....
1897.....	322	.....	322	12	310	.....	12
1898.....	310	19	329	.....	329	19	.....
1899.....	329	.....	329	8	321	.....	8
1900.....	321	2	323	.....	323	2	.....
1901.....	323	8	331	.....	331	8	.....
1902.....	331	1	332	.....	332	1	.....
1903.....	332	21	353	.....	353	21	.....
1904.....	352	27	380	.....	380	27	.....
1905.....	380	17	397	.....	397	17	.....
1906.....	397	22	419	.....	419	22	.....
1907.....	419	.....	419	8	411	.....	8
1908.....	411	16	427	20	407	.....	4
1909.....	407	18	425	41	384	.....	23
1910.....	384	27	411	21	290	6	.....
1911.....	390	29	419	32	387	.....	3
1912.....	387	15	402	22	380	.....	7
1913.....	380	15	402	24	371	.....	9

Table 18 gives the counties in which shipping mines are operated, the number of mines, number of men employed, and the number of tons produced in each, and shows the gain or loss in mines, men and tons—1913 over 1912.

TABLE 18—SHIPPING MINES, NUMBER OF MINES, MEN, TONS BY COUNTIES, WITH THE GAIN OR LOSS FOR THE YEAR 1913

Counties	1912			1913			Gain (+) or loss (—) 1913		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
The State.....	380	76, 407	56, 096, 695	371	76, 855	60, 515, 416	—9	+ 448	+ 4, 418, 721
Bond.....	2	316	183, 180	2	293	231, 999	.....	—23	+ 48, 819
Bureau.....	7	3, 901	1, 664, 092	7	3, 647	1, 784, 688	.....	—254	+ 120, 596
Christian.....	8	2, 058	1, 340, 503	10	2, 026	1, 481, 737	+ 2	—32	+ 141, 234
Clinton.....	5	1, 315	1, 012, 982	5	1, 315	1, 036, 303	.....	.....	+ 23, 321
Franklin.....	16	4, 472	4, 026, 815	16	5, 314	5, 232, 526	.....	+ 842	+ 1, 205, 711
Fulton.....	20	3, 540	2, 333, 758	19	3, 235	2, 397, 374	—1	—305	+ 636, 616
Gallatin.....	3	135	63, 127	3	132	68, 739	.....	—3	+ 5, 612
Grundy.....	6	1, 661	742, 606	5	1, 096	411, 964	—1	—565	—330, 642
Henry.....	1	95	42, 995	1	17	4, 168	.....	—78	—38, 827
Jackson.....	7	1, 071	687, 857	8	1, 061	702, 985	+ 1	—10	+ 15, 128
Jefferson.....	1	45	7, 958	1	76	35, 619	.....	+ 31	+ 27, 661
LaSalle.....	15	3, 319	1, 404, 599	13	2, 895	1, 382, 945	—2	—424	—21, 654
Livingston.....	1	45	29, 682	1	63	28, 875	.....	+ 18	—807
Logan.....	4	677	429, 555	4	591	411, 003	.....	—86	—18, 552
Macon.....	5	597	271, 626	5	548	279, 732	.....	—49	+ 8, 106
Macoupin.....	13	4, 650	4, 890, 622	12	4, 985	5, 202, 014	—1	+ 335	+ 311, 392
Madison.....	16	4, 301	3, 400, 930	16	4, 477	3, 832, 952	.....	+ 176	+ 432, 022
Marion.....	6	1, 399	1, 203, 947	6	1, 446	1, 188, 551	.....	+ 47	—15, 396
Marshall.....	5	1, 038	441, 731	6	1, 034	465, 028	+ 1	—4	+ 23, 297

TABLE 18—*Concluded*

Counties	1912			1913			Gain (+) or loss (—) 1913		
	Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
McLean.....	2	200	96,898	2	191	93,236	.....	—9	—3,662
Menard.....	4	329	189,235	4	300	150,167	.....	—29	—39,068
Mercer.....	3	471	318,070	4	516	403,466	+1	+45	+85,396
Montgomery.....	10	2,672	2,280,341	10	2,629	2,418,329	.....	—43	+137,988
Moultrie.....	1	68	54,162	1	109	105,280	.....	+41	+51,118
Peoria.....	14	1,386	1,026,151	14	1,468	1,133,854	.....	+82	+107,703
Perry.....	19	2,402	1,394,940	18	2,225	1,634,214	—1	—177	+239,274
Putnam.....	2	1,354	716,531	2	1,230	752,729	.....	—124	+36,198
Randolph.....	10	1,127	744,506	10	1,087	699,983	.....	—40	—44,523
Rock Island.....	1	29	13,040	1	31	9,268	.....	+2	—3,772
Saline.....	18	4,659	4,076,756	17	5,408	4,498,213	—1	+749	+421,457
Sangamon.....	29	7,249	5,402,065	29	6,957	5,704,942	.....	—292	+302,877
Shelby.....	2	211	114,835	2	313	195,569	.....	+102	+80,734
Stark.....	1	33	13,326	1	19	6,753	.....	—14	—6,573
St. Clair.....	58	5,701	4,409,341	50	5,572	4,637,552	—8	—129	+228,211
Tazewell.....	5	341	209,802	5	409	270,783	.....	+68	+60,981
Vermilion.....	18	3,773	3,221,314	18	3,831	3,344,623	.....	+58	+123,309
Washington.....	3	416	188,083	3	377	244,582	.....	—39	+56,499
White.....	1	55	31,774	1	59	19,246	.....	+4	—12,528
Will.....	2	412	174,443	2	341	148,741	.....	—71	—25,702
Williamson.....	34	8,461	7,058,621	35	9,153	7,685,189	+1	+692	+626,568
Woodford.....	2	423	183,896	2	379	179,495	.....	—44	—4,401

Table 19 is a list of the shipping mines, showing the name of the operators, the number and location of the mines controlled by each, the total output and the disposition of the product.

TABLE 19—SHIPPING OR COMMERCIAL COLLIERIES—DISTRIBUTION OF OUTPUT FOR YEAR 1913

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Disposition of output—tons			
				Total output— all grades— tons	Loaded on cars at mine for shipment	Supplied to loco- motives at mine chutes	Consumed and wasted at mine
	All shipping mines.....	371	.....	60,515,416	55,972,374	904,570	1,326,869
1	O'Gara Coal Co.....	11	.....	2,690,759	2,578,100	22,695	22,901
	do.....	5	Harrisburg.....	1,506,704	1,436,359	22,695	14,075
	do.....	3	Eldorado.....	516,972	492,883	.....	6,571
	do.....	2	Carrier Mills.....	389,280	379,236	.....	1,210
	do.....	1	Ledford.....	277,803	269,622	.....	1,045
2	Superior Coal Co.....	4	.....	2,486,343	2,429,522	.....	1,440
	do.....	3	Gillespie.....	2,347,974	2,293,353	.....	1,440
	do.....	1	Belleville.....	138,367	136,169	.....	.....
3	Bunsen Coal Co.....	4	Westville.....	2,266,626	2,214,895	.....	16,385
4	Peabody Coal Co.....	7	.....	2,122,556	2,074,301	.....	9,370
	do.....	2	Witt.....	823,611	803,882	.....	8,444
	do.....	2	Marion.....	729,454	713,870	.....	15,584
	do.....	1	Taylor Springs.....	395,003	388,911	.....	6,092
	do.....	1	Hillsboro.....	167,070	161,472	.....	926
	do.....	1	Nokomis.....	7,418	6,166	.....	1,252
5	Consolidated Coal Co.....	6	.....	2,061,545	1,807,191	48,791	2,687
	do.....	1	Staunton.....	651,229	590,265	.....	.....
	do.....	2	Mt. Olive.....	645,742	535,920	48,791	500
							60,964
							60,531

TABLE 19—Continued

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
	Consolidated Coal Co. ....	1	Collinsville .....	615, 318	541, 586	.....	.....	73, 732
	do. ....	1	Breese .....	120, 186	111, 406	.....	1, 955	6, 825
	do. ....	1	Johnston City..	29, 070	28, 014	.....	232	824
6	Madison Coal Corp. ....	6	.....	1, 972, 547	1, 878, 256	20, 985	8, 800	64, 506
	do. ....	2	Dewmaine .....	856, 656	831, 105	.....	2, 993	22, 558
	do. ....	2	Glen Carbon .....	433, 317	408, 783	317	2, 362	21, 855
	do. ....	1	Divernon .....	403, 284	390, 557	.....	3, 352	9, 375
	do. ....	1	Mt. Olive .....	279, 290	247, 811	20, 668	93	10, 718
7	Big Muddy C. & Iron Co.	4	.....	1, 115, 315	1, 027, 275	.....	4, 173	83, 867
	do. ....	1	Clifford .....	511, 155	466, 692	.....	1, 945	42, 518
	do. ....	2	Murphysboro ..	354, 078	330, 051	.....	.....	24, 027
	do. ....	1	Herrin .....	250, 082	230, 532	.....	2, 228	17, 322
8	Chi., Wil. & Ver. C. Co.	5	.....	1, 078, 770	960, 041	.....	17, 088	101, 641
	do. ....	1	Thayer .....	551, 787	507, 205	.....	3, 382	41, 200
	do. ....	2	Streator .....	274, 236	243, 897	.....	5, 573	24, 766
	do. ....	2	S. Wilmington..	252, 747	208, 939	.....	8, 133	35, 675
9	Southern Coal & M. Co.	5	.....	1, 072, 862	1, 024, 095	827	7, 196	40, 744
	do. ....	4	Belleville .....	705, 243	683, 565	798	4, 502	16, 378
	do. ....	1	New Baden .....	367, 619	340, 530	29	2, 694	24, 366
10	Spring Valley Coal Co. .	4	.....	1, 030, 883	958, 045	14, 961	22, 602	35, 275
	do. ....	2	Spring Valley ..	511, 314	461, 560	14, 961	16, 617	8, 176
	do. ....	1	Dalzell .....	306, 756	296, 892	.....	2, 169	7, 695
	do. ....	1	Seatonville .....	212, 813	199, 593	.....	3, 816	9, 404
11	Saline County Coal Co.	2	.....	1, 019, 662	1, 001, 233	.....	4, 947	13, 482
	do. ....	1	Ledford .....	552, 064	544, 171	.....	1, 241	6, 652
	do. ....	1	Harrisburg .....	467, 598	457, 062	.....	3, 706	6, 830
12	Springfield Coal M. Co.	3	.....	889, 072	777, 624	23, 030	29, 654	58, 764
	do. ....	1	Riverton .....	389, 057	360, 732	.....	3, 307	25, 018
	do. ....	1	Springfield .....	259, 768	254, 258	.....	30	5, 480
	do. ....	1	Taylorville .....	240, 247	162, 634	23, 030	26, 317	28, 266
13	Illinois Midland C. Co.	3	.....	877, 915	850, 926	5, 626	7, 610	13, 753
	do. ....	1	Pana .....	488, 445	469, 514	5, 622	6, 709	6, 600
	do. ....	1	Sherman .....	314, 646	310, 627	.....	48	3, 971
	do. ....	1	Taylorville .....	74, 824	70, 785	4	853	3, 182
14	St. L. & O'Fallon C. Co.	2	East St. Louis .	866, 842	848, 704	5, 141	.....	12, 997
15	Donk Bros. C. & C. Co.	3	.....	858, 126	824, 751	1, 092	6, 218	26, 065
	do. ....	1	Maryville .....	361, 169	346, 672	705	1, 272	12, 520
	do. ....	1	Donkville .....	309, 832	301, 654	387	279	7, 512
	do. ....	1	Troy .....	187, 125	176, 425	.....	4, 667	6, 033
16	New Staunton Coal Co.	1	Livingston .....	848, 715	838, 359	.....	3, 286	7, 070
17	United Coal Mining Co.	2	.....	846, 305	822, 728	605	4, 132	18, 840
	do. ....	1	Christopher .....	535, 672	522, 619	605	2, 854	9, 594
	do. ....	1	Buckner .....	310, 633	300, 109	.....	1, 278	9, 246
18	Dering Coal Co. ....	5	.....	807, 781	777, 742	.....	.....	30, 039
	do. ....	2	Steelton .....	309, 148	301, 185	.....	.....	7, 963
	do. ....	2	West Frankfort	290, 490	272, 914	.....	.....	17, 576
	do. ....	1	Westville .....	208, 143	208, 643	.....	.....	4, 500

TABLE 19—Continued

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
19	St. Paul Coal Co. ....	2	.....	787, 939	750, 765	4, 023	7, 432	25, 719
	..do.....	1	Granville.....	451, 428	429, 337	4, 023	3, 619	14, 449
	..do.....	1	Cherry.....	336, 511	321, 428	.....	3, 813	11, 278
20	W. P. Rend Coal Co. ....	2	.....	694, 466	671, 376	.....	2, 280	20, 810
	..do.....	1	Herrin.....	420, 241	408, 817	.....	982	10, 442
	..do.....	1	Rend.....	274, 225	262, 559	.....	1, 298	10, 368
21	Big Creek Coal Co. ....	4	.....	687, 244	664, 200	1, 439	1, 125	20, 480
	..do.....	1	St. David.....	265, 314	253, 527	235	.....	11, 552
	..do.....	1	Dunfermline.....	188, 834	181, 180	.....	740	6, 914
	..do.....	1	Eldorado.....	143, 331	143, 331	.....	.....	.....
	..do.....	1	Cuba.....	89, 765	86, 162	1, 204	385	2, 014
22	Mt. Olive & Staun. C. Co.	2	Staunton.....	662, 991	639, 993	2, 952	3, 899	16, 147
23	Ohio Valley Mining Co.	1	West Frankfort	616, 531	598, 821	.....	3, 912	13, 798
24	LaSalle Co. Car. C. Co.	4	LaSalle.....	612, 821	473, 350	56, 500	49, 619	33, 352
25	Zeigler Dist. Col. Co.	1	Christopher.....	603, 187	582, 587	.....	4, 280	16, 320
26	Southern Ill. Coal Co.	3	Herrin.....	595, 663	570, 133	.....	8, 246	17, 284
27	Bell & Zoller M. Co.	1	Zeigler.....	568, 844	540, 785	1, 541	1, 675	24, 843
28	Shoal Creek Coal Co.	1	Panama.....	542, 473	515, 194	.....	2, 210	25, 069
29	Centralia Coal Co.	3	Centralia.....	515, 650	368, 931	97, 311	28, 005	21, 403
30	Willis Coal & Mining Co.	2	.....	513, 648	498, 420	.....	1, 787	13, 441
	..do.....	1	Percy.....	269, 110	263, 828	.....	889	4, 393
	..do.....	1	Willisville.....	244, 538	234, 592	.....	898	9, 048
31	Sesser Coal Co.	1	Sesser.....	471, 408	468, 168	.....	240	3, 000
32	Chi. & Carterville C. Co.	2	Herrin.....	467, 094	416, 279	.....	10, 503	40, 312
33	Lumaghi Coal Co.	2	Collinsville.....	457, 949	445, 176	.....	1, 112	11, 661
34	Johnston City Coal Co.	1	Johnston City.....	439, 868	430, 950	.....	.....	8, 918
35	Prairie Coal Co.	1	Belleville.....	420, 363	417, 313	1, 000	250	1, 800
36	Taylor Coal Co.	2	Herrin.....	406, 284	392, 134	.....	737	13, 413
37	Benton Coal Co.	1	Benton.....	406, 275	387, 802	.....	9, 764	8, 709
38	Breese-Trenton M. Co.	3	.....	397, 759	315, 776	54, 058	12, 838	15, 087
	..do.....	2	Breese.....	313, 402	240, 580	54, 058	8, 865	9, 899
	..do.....	1	Trenton.....	84, 357	75, 196	.....	3, 973	5, 188
39	Royal Col. Co.	1	Virден.....	395, 652	363, 713	.....	5, 480	26, 459
40	Hart-Williams C. Co.	1	Benton.....	391, 119	373, 483	.....	6, 431	11, 205
41	Jones & Adams Coal Co.	1	Springfield.....	390, 952	375, 757	1, 800	45	13, 350
42	Marion Co. Coal Co.	1	Centralia.....	390, 106	382, 306	.....	615	7, 185
43	Black Diamond C. Co.	1	Auburn.....	368, 907	362, 296	.....	2, 634	3, 977
44	Wasson Coal Co.	1	Wasson.....	357, 949	353, 349	.....	1, 000	3, 600
45	Sunnyside Coal Co.	1	Herrin.....	355, 730	321, 908	.....	2, 220	31, 602
46	Girard Col. Co.	1	Girard.....	353, 002	341, 696	.....	8, 716	2, 590
47	Hillsboro Coal Co.	1	Hillsboro.....	351, 723	331, 257	.....	13, 358	7, 108
48	Christian Co. Coal Co.	1	Taylorville.....	341, 112	316, 227	.....	14, 014	10, 871
49	Woodside Coal Co.	1	Springfield.....	333, 566	288, 544	.....	33, 520	11, 502
50	Franklin Coal & C. Co.	1	Royalton.....	331, 807	319, 707	.....	2, 600	9, 500
51	Kolb Coal Co.	5	.....	329, 614	228, 008	91, 895	.....	9, 711
	..do.....	2	Mascoutah.....	222, 917	155, 523	61, 814	.....	5, 580
	..do.....	1	Lenzburg.....	85, 672	52, 760	30, 081	.....	2, 831
	..do.....	1	Birkner.....	20, 464	19, 223	.....	.....	1, 241
	..do.....	1	New Athens.....	561	502	.....	.....	59
52	Joseph Taylor Coal Co.	3	O'Fallon.....	328, 813	291, 313	900	1, 600	35, 000
53	Star Coal Co.	5	.....	326, 174	301, 334	371	14, 891	9, 578
	..do.....	3	Cuba.....	244, 364	236, 425	371	.....	7, 565
	..do.....	1	Freeburg.....	76, 741	60, 000	.....	14, 891	1, 850
	..do.....	1	Fiatt.....	5, 069	4, 909	.....	.....	160

TABLE 19—Continued

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
54	B. F. Berry Coal Co. ....	1	Granville .....	301,301	284,455	.....	5,264	11,582
55	West. C. & Mining Co. ....	1	Bush .....	294,351	273,574	.....	947	19,830
56	Toluca Coal Co. ....	1	Toluca .....	290,523	224,427	43,565	6,263	16,268
57	Chicago-Sandoval C. Co. ....	2	Sandoval .....	286,182	269,813	.....	8,501	7,868
58	Coal Valley M. Co. ....	2	.....	276,957	259,168	2,065	2,563	13,161
..do.	.....	1	Matherville .....	157,999	152,923	.....	.....	5,076
..do.	.....	1	Sherrard .....	118,958	106,245	2,065	2,563	8,085
59	Security C. & M. Co. ....	1	Duquoin .....	275,674	270,830	.....	690	4,154
60	Eldorado Coal M. Co. ....	1	Eldorado .....	272,512	266,761	.....	680	5,071
61	Alden Coal Co. ....	2	.....	267,613	258,842	.....	2,554	6,217
..do.	.....	1	Norris .....	209,252	201,674	.....	2,140	5,438
..do.	.....	1	Farmington .....	58,361	57,168	.....	414	779
62	Carterville Coal Co. ....	1	Carterville .....	266,107	259,470	.....	1,674	4,963
63	Ill. 3d Vein Coal Co. ....	1	Ladd .....	261,685	208,186	21,269	4,073	33,157
64	Clarke Coal & Coke Co. ....	1	Peoria .....	249,983	243,457	.....	.....	6,526
65	West Va. Coal Co. ....	1	Marion .....	244,154	241,154	.....	.....	3,000
66	Glenridge Coal Co. ....	1	Virden .....	242,122	226,286	.....	8,818	7,001
67	Paradise Coal Co. ....	1	Duquoin .....	241,483	192,960	36,005	5,318	7,200
68	Stonington Coal Co. ....	1	Taylorville .....	239,938	223,069	.....	5,947	10,922
69	No. Breese C. & M. Co. ....	1	Breese .....	235,096	231,718	.....	.....	3,378
70	DeCamp C. M. Co. ....	1	Staunton .....	232,974	228,551	.....	40	4,383
71	Maplewood Col. Co. ....	1	Farmington .....	229,742	221,147	.....	2,749	5,846
72	Chi.-Springfield C. Co. ....	1	Springfield .....	224,646	220,990	.....	425	3,231
73	Majestic Coal & C. Co. ....	1	Duquoin .....	215,730	205,430	.....	300	10,000
74	Monmouth C. M. Co. ....	1	Breerton .....	215,318	208,901	.....	324	6,093
75	Vivian Col. Co. ....	1	Greenridge .....	209,213	145,757	.....	63,456	.....
76	Carter. & Herrin C. Co. ....	1	Herrin .....	207,728	203,316	.....	762	3,650
77	Pana Coal Co. ....	2	Pana .....	204,720	84,597	30,279	5,719	84,125
78	Oglesby Coal Co. ....	1	Oglesby .....	204,222	185,893	917	5,597	11,815
79	Big Muddy Fuel Co. ....	1	Johnston City .....	201,543	194,271	.....	850	6,422
80	Ill. Hocking W. C. Co. ....	1	Marion .....	201,250	191,150	.....	.....	10,100
81	Latham Mining Co. ....	1	Lincoln .....	197,690	174,635	.....	12,547	10,508
82	Penwell Coal Co. ....	1	Pana .....	197,627	151,145	25,794	12,762	7,926
83	Standard Col. Co. ....	1	Johnston City .....	197,589	190,449	120	2,634	4,356
84	Odin Coal Co. ....	1	Odin .....	197,058	182,998	.....	2,763	11,297
85	Hafer Washed C. Co. ....	1	Carterville .....	191,940	178,340	.....	500	13,100
86	Central Co-op. Coal Co. ....	2	Springfield .....	190,226	177,714	2,948	6,139	3,425
87	Chicago & Big M. C. Co. ....	1	Marion .....	186,837	183,399	.....	106	3,332
88	Kerns-Donnewald C. Co. ....	1	Worden .....	185,092	178,261	.....	2,840	3,991
89	Sangamon Coal Co. ....	1	Springfield .....	175,356	168,392	.....	3,604	3,360
90	Capital Coal Co. ....	1	..do. ....	175,266	143,845	.....	26,393	5,028
91	Canton Coal M. Co. ....	1	Canton .....	169,474	167,674	.....	.....	1,800
92	Mo. & Ill. Coal Co. ....	3	.....	165,866	160,917	.....	.....	4,949
..do.	.....	1	Willisville .....	126,726	123,282	.....	.....	3,444
..do.	.....	1	Rentchler .....	30,845	29,700	.....	.....	1,145
..do.	.....	1	Belleville .....	8,295	7,935	.....	.....	360
93	Wolschlag Co-op. C. Co. ....	1	Peoria .....	164,570	162,532	716	.....	1,322
94	Ritchey Coal Co. ....	1	Pinckneyville .....	158,852	111,422	40,186	2,413	4,831
95	Duquoin Operating Co. ....	1	Duquoin .....	158,704	157,604	.....	500	600
96	Cora Coal Co. ....	1	Springfield .....	158,105	153,653	.....	2,400	2,052
97	Marquette 3d V. C. Co. ....	1	Marquette .....	155,609	141,069	.....	2,656	11,884
98	Simmons Coal Co. ....	1	Canton .....	153,655	151,465	.....	.....	2,190
99	St. L.-Carterville C. Co. ....	1	Herrin .....	151,247	145,451	.....	1,416	4,380
100	Crescent Coal Co. ....	1	Peoria .....	149,153	149,153	.....	.....	.....
101	Williamson Co. C. Co. ....	1	Johnston City .....	148,794	144,383	.....	.....	4,411
102	Muddy Valley M. Co. ....	1	Hallidayboro .....	148,727	91,524	40,169	2,580	14,454
103	Tazewell Coal Co. ....	1	Pekin .....	148,294	138,485	.....	5,812	3,997
104	Eagle Mining Co. ....	1	Canton .....	147,188	123,685	14,203	5,108	4,192
105	Tower Hill Coal Co. ....	1	Tower Hill .....	145,756	129,009	.....	3,930	12,811
106	Brewster & Evans Co. ....	1	Peoria .....	139,893	139,893	.....	.....	.....
107	Pocahontas Mining Co. ....	1	Pocahontas .....	139,783	132,486	.....	2,797	4,500
108	Norris Coal Mining Co. ....	1	Norris .....	139,253	117,210	17,854	1,605	2,584
109	Citizens Coal M. Co. ....	2	Springfield .....	135,253	125,935	.....	5,938	3,380
110	West End Coal Co. ....	1	..do. ....	132,164	103,212	.....	23,953	4,999



TABLE 19—Continued

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
111	Silver Creek Col. Co. ....	1	Farmington. ....	128,367	127,162	.....	.....	1,205
112	Pond Creek C. Co. ....	1	Herrin. ....	126,867	119,507	.....	240	7,120
113	Dickerson Coal Co. ....	1	Springfield. ....	126,270	121,606	.....	1,188	3,476
114	Tuxhorn Coal Co. ....	1	do. ....	125,911	120,138	.....	1,979	3,794
115	Alden Coal Co. ....	1	Matherville. ....	124,444	123,741	.....	.....	703
116	Suburban C. & M. Co. ....	1	Belleville. ....	121,137	119,522	.....	1,615	.....
117	Roanoke Coal Co. ....	1	Roanoke. ....	120,868	101,594	7,147	5,359	6,768
118	Decatur Coal Co. ....	3	.....	118,407	36,200	.....	13,548	68,659
	do. ....	2	Decatur. ....	79,530	5,791	.....	8,762	64,977
	do. ....	1	Niantic. ....	38,877	30,409	.....	4,786	3,682
119	Electric Coal Co. ....	1	Danville. ....	116,428	75,828	37,000	.....	3,600
120	Wabash Coal Co. ....	2	.....	115,586	99,545	.....	6,527	9,514
	do. ....	1	Athens. ....	59,564	50,865	.....	4,475	4,224
	do. ....	1	Dawson. ....	56,022	48,680	.....	2,052	5,290
121	Wenona Coal Co. ....	1	Wenona. ....	115,028	99,594	.....	8,953	6,481
122	Danville Col. Co. ....	1	Catlin. ....	112,738	111,789	.....	.....	949
123	Scran. & B. M. C. M. Co. ....	1	Marion. ....	112,699	109,385	.....	1,074	2,240
124	Auburn & Alton C. Co. ....	1	Auburn. ....	112,554	102,573	.....	7,791	2,190
125	Carroll & Franklin. Cos. ....	1	Hanaford. ....	111,902	107,177	.....	1,725	3,000
126	Lefton Coal Co. ....	1	Auburn. ....	111,025	109,200	.....	.....	1,825
127	Lincoln Mining Co. ....	1	Lincoln. ....	108,672	79,786	.....	19,138	9,748
128	Lovington Coal Co. ....	1	Lovington. ....	105,280	97,565	.....	4,145	3,570
129	Mfg. & Cons. Coal Co. ....	1	Decatur. ....	104,465	60,088	.....	40,371	4,006
130	Jones Bros. C. M. Co. ....	1	Marissa. ....	103,509	100,509	.....	.....	3,000
131	Williamsville C. Co. ....	1	Selbytown. ....	100,999	97,499	.....	500	3,000
132	Smith-Lohr C. Co. ....	1	Pana. ....	100,303	84,737	.....	3,639	11,927
133	Springfield Co-op. C. Co. ....	1	Springfield. ....	98,430	62,600	.....	25,230	10,600
134	Carter. & B. M. C. Co. ....	1	Cambria. ....	94,978	87,607	.....	279	7,092
135	Citizens C. Mining Co. ....	1	Lincoln. ....	94,456	41,604	31,491	13,251	8,130
136	Newsam Bros. ....	1	Kingston Mines	94,147	91,680	.....	162	2,305
137	Mulberry Hill C. Co. ....	2	Freeburg. ....	93,098	88,000	.....	2,298	2,800
138	Donally-Koenecke C. Co. ....	1	Cartersville. ....	92,630	88,388	.....	592	3,650
139	No. C. & Supply Co. ....	1	Sorento. ....	92,216	88,017	.....	1,127	3,072
140	Barclay Coal Co. ....	1	Barclay. ....	91,584	86,116	.....	2,275	3,193
141	Spring Creek Coal Co. ....	1	Springfield. ....	90,992	87,795	.....	451	2,746
142	National C. M. Co. ....	1	Farmington. ....	90,117	85,848	.....	1,269	3,000
143	Gus Blair B. M. C. Co. ....	2	Murphysboro. ....	88,913	67,356	.....	15,656	5,901
144	Wilmington Star M. Co. ....	2	Coal City. ....	88,400	79,582	.....	5,456	3,362
145	Peoria Dist. Col. Co. ....	1	Bartonville. ....	83,613	80,013	.....	.....	3,600
146	Clover Leaf C. Co. ....	1	Coffeen. ....	83,516	76,706	.....	2,610	4,200
147	Missionfield Coal Co. ....	2	Danville. ....	82,449	82,169	.....	180	100
148	Wilm. C. M. & M. Co. ....	1	Torino. ....	81,659	72,445	.....	3,814	5,400
149	Wilson Bros. C. Co. ....	1	Sparta. ....	78,306	76,637	.....	1,189	480
150	Carlinville Coal Co. ....	1	Carlinville. ....	77,790	55,374	2,545	15,811	4,060
151	Harrison Coal Co. ....	1	Streator. ....	77,028	68,878	.....	4,500	3,650
152	Illinois Fuel Co. ....	1	Sparta. ....	75,600	73,663	.....	.....	1,937
153	McLean Co. Coal Co. ....	1	Bloomington. ....	75,305	587	27,280	38,021	9,417
154	T. J. O'Gara. ....	1	Springfield. ....	74,527	67,877	.....	6,169	481
155	Moffatt Coal Co. ....	1	Sparta. ....	74,318	72,605	.....	.....	1,713
156	Assumption Coal Co. ....	1	Assumption. ....	73,883	53,343	.....	9,835	10,705
157	Big Four Wil. C. Co. ....	1	Coal City. ....	70,817	58,668	.....	4,849	7,300
158	W. Frankfort Coal Co. ....	1	W. Frankfort. ....	69,045	66,525	.....	1,020	1,500
159	Loran Coal Co. ....	1	Hanna City. ....	68,000	64,000	.....	1,000	3,000
160	Murphy-Linskey & Kasher. ....	1	Braidwood. ....	67,082	60,240	.....	5,342	1,500
161	Gartside Coal Co. ....	1	Murphysboro. ....	66,326	37,960	.....	22,316	6,050
162	Watson Coal Co. ....	1	Herrin. ....	66,230	65,000	.....	230	1,000
163	Acme Coal Co. ....	1	Streator. ....	65,839	37,855	.....	10,690	17,294
164	Jones Bros. Coal Co. ....	2	Marissa. ....	63,853	60,187	.....	2,866	1,800
165	W. S. Walker. ....	1	Edwardsville. ....	63,000	60,000	.....	1,500	1,500
166	Mission Mining Co. ....	1	Oakwood. ....	62,240	62,240	.....	.....	.....
167	St. L.-Coulterville C. Co. ....	1	Coulterville. ....	61,404	54,175	.....	5,000	2,229
168	Ill. Zinc Co. ....	1	Peru. ....	60,058	57,023	.....	542	2,493
169	Minonk Coal Co. ....	1	Minonk. ....	58,627	48,592	.....	6,110	3,925
170	Eldnar Coal Co. ....	1	Belleville. ....	57,296	55,796	.....	.....	1,500

TABLE 19—Continued

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
171	Blue Mound Coal Co.	1	Blue Mound	56, 860	54, 180	.....	1, 360	1, 320
172	Bessemer C. & M. Co.	2	Tilden	54, 618	52, 000	.....	1, 050	1, 568
173	Groveland Coal Co.	1	Peoria	54, 384	54, 384	.....	.....	.....
174	Borders Coal Co.	1	Marissa	53, 744	48, 620	.....	3, 744	1, 380
175	Summitt Coal Co.	1	Belleville	52, 795	51, 995	.....	395	405
176	Moweaqua C. M. & M. C.	1	Moweaqua	49, 813	35, 544	.....	10, 059	4, 210
177	Johnson Coal Co.	1	Marissa	49, 210	47, 010	.....	200	2, 000
178	Ill. Valley C. Co.	3	Sparland	48, 775	48, 270	.....	505	.....
179	Bald Eagle M. Co.	1	Craig	48, 410	45, 500	.....	1, 410	1, 500
180	White Coal Co.	1	Belleville	48, 146	43, 996	.....	3, 750	400
181	City Coal Co.	1	Edwardsville	47, 636	29, 244	5, 821	10, 381	2, 190
182	Tilton Coal Co.	1	Danville	46, 448	45, 824	.....	.....	624
183	Black Diamond C. Co.	1	do	45, 283	45, 283	.....	.....	.....
184	Pittsburg M. Co.	1	Belleville	43, 306	23, 096	.....	19, 470	740
185	Warsaw Coal Co.	1	Edwards	42, 908	41, 656	.....	.....	1, 252
186	Oakdale C. M. Co.	1	Belleville	42, 900	31, 000	.....	8, 900	3, 000
187	Cahill Coal Co.	1	Peru	42, 820	20, 760	1, 680	18, 340	2, 040
188	Fullerton Coal Co.	1	Belleville	42, 593	41, 034	.....	1, 015	544
189	Kriekheimer C. Co.	1	DeSoto	41, 713	36, 680	.....	233	4, 800
190	Colliers Co-op. C. Co.	1	Bartonville	41, 613	40, 793	.....	.....	820
191	Spoon River Coal Co.	1	Mayton	40, 584	38, 874	50	200	1, 460
192	South Mt. Coal Co.	1	Petersburg	40, 281	29, 737	3, 640	5, 164	1, 740
193	Hickory Hill Coal Co.	1	Equality	38, 677	38, 616	.....	41	20
194	Groom Coal Co.	1	Belleville	37, 585	36, 721	.....	224	640
195	Nicholson Coal Co.	1	Nashville	36, 844	20, 000	3, 829	12, 615	400
196	Mapleton Coal Co.	1	Mapleton	36, 685	35, 585	.....	600	500
197	Greenview Mining Co.	1	Greenview	35, 948	29, 423	.....	4, 629	1, 896
198	Pittsburg B. M. Coal Co.	1	Pittsburg	35, 396	34, 596	.....	.....	800
199	Mt. Vernon Coal Co.	1	Mt. Vernon	35, 619	24, 689	1, 500	7, 605	1, 825
200	Rutland Coal Co.	1	Rutland	34, 548	27, 434	.....	3, 402	3, 712
201	Edwardsv'e H. T. C. Co.	1	Edwardsville	32, 582	13, 482	.....	18, 834	266
202	Gauch Coal Co.	1	Rentchler	31, 500	30, 055	.....	500	945
203	Eastern Coal Co.	1	East Peoria	31, 337	12, 821	.....	17, 896	620
204	Christopher C. M. Co.	1	Christopher	29, 940	26, 731	.....	392	2, 817
205	Ubben Coal Co.	1	Pekin	29, 672	15, 672	.....	12, 800	1, 200
206	Maul Coal Co.	1	Belleville	29, 400	26, 200	.....	2, 100	1, 100
207	Fairbury Coal Co.	1	Fairbury	28, 875	5, 399	20, 500	1, 953	1, 023
208	International C. M. Co.	1	O'Fallon	28, 237	27, 580	137	.....	520
209	Black Diamond M. Co.	1	Danville	27, 482	27, 482	.....	.....	.....
210	L. Senior	1	Belleville	27, 169	26, 119	.....	300	750
211	Sharon C. & Brick Co.	1	Georgetown	27, 080	11, 851	.....	13, 836	1, 393
212	Farmersville C. M. Co.	1	Farmersville	26, 922	19, 422	.....	5, 354	2, 146
213	Highland C. Co.	1	Belleville	25, 864	8, 690	1, 400	13, 752	2, 022
214	New National C. Co.	1	do	25, 250	1, 100	.....	23, 400	750
215	Spaulding Coal Co.	1	Spaulding	25, 200	22, 200	.....	3, 000	.....
216	Olympia C. M. Co.	1	Edwards	24, 586	22, 437	.....	275	1, 874
217	Wilson Coal Co.	1	Cutler	23, 859	15, 656	6, 005	825	1, 373
218	Underwood C. & M. Co.	1	Culterville	23, 164	22, 366	.....	228	570
219	Coal Creek M. Co.	1	Fairview	22, 717	22, 717	.....	.....	.....
220	Gallatin C. & C. Co.	1	Equality	21, 960	17, 133	3, 802	1, 025	.....
221	Danville Cons. C. Co.	1	Danville	21, 848	21, 848	.....	.....	.....
222	Egyptian C. & M. Co.	2	Marissa	21, 665	20, 703	.....	252	710
223	Tirrie Coal Co.	1	Lenzburg	21, 595	20, 980	.....	75	540
224	Bailey Bros.	2	Sunfield	21, 221	17, 858	.....	1, 350	2, 013
225	Litchfield Col. Co.	1	Litchfield	20, 593	9, 499	.....	9, 067	2, 027
226	Clute-Miller C. Co.	1	Caseyville	20, 409	19, 631	.....	125	653
227	Lancaster Ldg. C. & Tr. Co.	1	Kingston Mine	20, 157	19, 757	.....	400	.....
228	St. Clair Coal Co.	1	Freeburg	19, 323	18, 821	.....	.....	502
229	Norris City Coal Co.	1	Norris City	19, 246	9, 358	.....	7, 481	2, 407
230	Gray Coal Co.	1	Danville	18, 710	17, 605	.....	.....	1, 105
231	Vulcan Coal Co.	1	Belleville	18, 675	17, 116	.....	.....	1, 559
232	Colfax Co-op. Co.	1	Colfax	17, 931	2, 144	8, 425	5, 263	2, 099
233	Golden Rule C. Co.	1	Lenzburg	17, 334	15, 620	.....	1, 164	550
234	King City C. M. Co.	1	Cutler	16, 816	14, 000	718	1, 200	898
235	Fisher Fuel Co.	1	Millstadt	15, 200	15, 200	.....	.....	.....
236	Brinckley & Miles	1	Marion	15, 000	10, 000	.....	5, 000	.....
237	Menard Co. C. Co.	1	Tallula	14, 374	12, 184	.....	1, 760	430
238	Galatia & Saline County Coal Co.	1	Galatia	14, 000	6, 000	.....	7, 000	1, 000



TABLE 19—*Concluded*

No. of operators	Name of operator	No. of mines	Location of mine—postoffice	Total output—all grades	Disposition of output—tons			
					Loaded on cars at mine for shipment	Supplied to locomotives at mine chutes	Sold to local trade	Consumed and wasted at mine
239	Silver Creek Valley C.Co	1	Belleville.....	13,961	12,761	.....	.....	1,200
240	Randolph Co. Coal Co..	1	Coulterville.....	13,932	11,466	.....	1,785	681
241	Little M. Fuel Co.....	1	Tamara.....	13,794	10,000	.....	3,400	394
242	Brilliant C. & Coke Co..	1	Duquoin.....	13,047	12,247	.....	500	300
243	Fulton Co. Coal Co.....	2	Duquoin.....	12,767	5,516	.....	6,428	823
..do.....	..do.....	1	Sparland.....	10,702	4,121	.....	5,828	753
..do.....	..do.....	1	Matherville.....	2,065	1,395	.....	600	70
244	German Coal Co.....	1	Mapleton.....	12,016	10,006	.....	1,430	580
245	Reeb Bros.....	1	Belleville.....	11,507	7,539	.....	3,968	.....
246	G. & J. Coal Co.....	1	Seneca.....	11,373	9,231	.....	1,570	572
247	Brookside Coal Co.....	1	Troy.....	10,570	7,040	.....	2,000	1,530
248	Mt. Pulaski C. Co.....	1	Mt. Pulaski.....	10,185	4,473	.....	4,662	1,050
249	J. S. McNeil.....	1	Carterville.....	10,000	10,000	.....	.....	.....
250	Greenwood-Davis C. Co.	1	Duquoin.....	9,409	8,788	.....	276	345
251	Central Ill. Fuel Co.....	1	Coal Valley.....	9,268	8,000	.....	450	818
252	C. W. Vandever.....	1	Edinburg.....	9,083	1,300	7,007	.....	776
253	Crescent Coal Co.....	1	Equality.....	8,102	7,052	.....	750	300
254	Boyd C. & Coke Co.....	1	Sparta.....	7,426	6,968	.....	335	123
255	Kuhn Coal Co.....	1	Dubois.....	7,293	4,570	.....	1,823	900
256	Champion Coal Co.....	1	Pekin.....	7,096	5,676	960	.....	460
257	Wyoming M. Co.....	1	Wyoming.....	6,753	4,850	.....	1,503	400
258	Young Coal Co.....	1	Oak Hill.....	6,530	6,430	.....	100	.....
259	Kewanee Coal Co.....	1	Kewanee.....	4,168	1,035	.....	2,800	333
260	Strait Coal Co.....	1	Pinckneyville.....	3,255	1,640	.....	1,000	615
261	DeSoto Peacock C. Co..	1	DeSoto.....	3,228	2,800	.....	300	128
262	Dynamic C. M. Co.....	1	Duquoin.....	1,292	1,157	.....	35	100

## CLASSIFICATION OF OWNERSHIP

Table 20 gives the classification of the ownership of the shipping mines for ten years—1904 to 1913.

TABLE 20—NUMBER OF SHIPPING MINES AND LOCATION WITH CLASSIFICATION OF OWNERSHIP FOR TEN YEARS

Year	Total number of mines	Number of locations	Operators			Total
			Corporations	Firms	Individuals	
1904.....	380	175	228	20	25	273
1905.....	397	173	242	21	17	280
1906.....	419	178	248	21	16	285
1907.....	411	180	261	9	6	276
1908.....	407	172	251	8	9	268
1909.....	384	171	252	7	8	267
1910.....	390	185	253	8	7	268
1911.....	387	184	260	9	3	272
1912.....	380	175	258	6	4	268
1913.....	371	164	252	5	5	262

## LOCATION OF MINES

Table 21 is a list of the 269 places where the mines are located, arranged in alphabetical order, and shows the county, the district, number of mines, number of men employed and tons produced.

TABLE 21—LOCATION OF ALL MINES, SHOWING COUNTY AND DISTRICT, ALSO NUMBER OF MINES, MEN AND TONS

No.	Location of mines	County	Number of—			
			District	Mines	Men	Tons
1	Aledo.....	Mercer.....	2	2	21	9,475
2	Alexis.....	Warren.....	2	2	10	3,351
3	Alsey.....	Scott.....	4	3	8	1,689
4	Alton.....	Madison.....	8	1	5	1,700
5	Assumption.....	Christian.....	5	1	170	73,883
6	Astoria.....	Fulton.....	4	10	31	13,755
7	Athens.....	Menard.....	3	1	125	59,564
8	Atkinson.....	Henry.....	2	1	4	300
9	Auburn.....	Sangamon.....	6	3	623	592,486
10	Augusta.....	Hancock.....	4	1	10	2,822
11	Ava.....	Jackson.....	10	4	9	5,564
12	Avon.....	Fulton.....	4	7	21	5,970
13	Banner.....	do.....	4	1	2	650
14	Barclay.....	Sangamon.....	6	1	127	91,584
15	Bartonville.....	Peoria.....	4	4	207	166,527
16	Beardstown.....	Cass.....	4	1	2	560
17	Belleville.....	St. Clair.....	9	27	2,140	1,930,264
18	Benton.....	Franklin.....	11	2	917	797,394
19	Bethalto.....	Madison.....	8	3	15	3,100
20	Birkner.....	St. Clair.....	9	1	38	20,464
21	Birmingham.....	McDonough.....	4	2	5	780
22	Blandinsville.....	do.....	4	2	6	780
23	Bloomington.....	McLean.....	6	1	155	75,305
24	Blue Mound.....	Macon.....	5	1	90	56,860
25	Braidwood.....	Will.....	1	2	159	71,642
26	Breeds.....	Fulton.....	4	6	11	3,170
27	Breese.....	Clinton.....	8	4	906	668,684
28	Brereton.....	Fulton.....	4	1	280	215,318
29	Briarbluff.....	Henry.....	2	2	4	550
30	Brighton.....	Jersey.....	7	1	5	1,400
31	Brimfield.....	Peoria.....	3	7	22	5,573
32	Buckner.....	Franklin.....	11	1	343	310,633
33	Bunker Hill.....	Macoupin.....	7	2	12	6,070
34	Bush.....	Williamson.....	12	1	338	294,351
35	Bushnell.....	Schuyler.....	4	1	2	670
36	Cable.....	Mercer.....	2	2	5	1,101
37	Cambria.....	Williamson.....	12	1	191	94,978
38	Campbell Hill.....	Jackson.....	10	2	6	1,585
39	Canton.....	Fulton.....	4	22	655	505,953
40	Carbon Cliff.....	Rock Island.....	2	1	9	3,800
41	Carbondale.....	Jackson.....	10	3	14	13,000
42	Carlinville.....	Macoupin.....	7	1	119	77,790
43	Carriers Mills.....	Saline.....	11	5	634	402,135
44	Carterville.....	Williamson.....	12	7	702	573,488
45	Caseyville.....	St. Clair.....	9	1	45	20,409
46	Catlin.....	Vermilion.....	5	4	154	119,288
47	Centralia.....	Marion.....	8	4	1,142	905,756
48	Cherry.....	Bureau.....	2	1	494	336,511
49	Chesterfield.....	Macoupin.....	7	1	3	598
50	Chillicothe.....	Peoria.....	3	4	14	4,932
51	Christopher.....	Franklin.....	11	3	957	1,168,799
52	Clifford.....	Williamson.....	12	1	547	511,155
53	Coal City.....	Grundy.....	1	3	507	159,217
54	Coal Valley.....	Rock Island.....	2	5	82	39,391
55	Coffeen.....	Montgomery.....	7	1	195	83,516
56	Colchester.....	McDonough.....	4	28	81	19,571
57	Colfax.....	McLean.....	6	1	36	17,931
58	Collinsville.....	Madison.....	8	7	1,011	1,112,561
59	Collison.....	Vermilion.....	5	1	11	6,000
60	Coulterville.....	Randolph.....	10	3	207	98,500
61	Crab Orchard.....	Williamson.....	12	4	14	3,210
62	Craig.....	Perry.....	10	1	74	48,416
63	Crainville.....	Williamson.....	12	1	4	200
64	Creal Springs.....	do.....	12	1	6	144

TABLE 21—Continued

No.	Location of mines	County	Number of—			
			District	Mines	Men	Tons
65	Cuba.....	Fulton.....	4	19	606	353,524
66	Cutler.....	Perry.....	10	2	72	40,675
67	Dahinda.....	Knox.....	2	1	2	450
68	Dalzell.....	Bureau.....	2	1	579	306,756
69	Danville.....	Vermilion.....	5	24	615	507,056
70	Dawson.....	Sangamon.....	6	1	121	56,022
71	Decatur.....	Macon.....	5	3	389	183,995
72	De Soto.....	Jackson.....	10	3	113	48,341
73	Dewmaine.....	Williamson.....	12	2	850	856,656
74	Divernon.....	Sangamon.....	6	1	476	403,284
75	Donkville.....	Madison.....	8	1	339	309,832
76	Dunfermline.....	Fulton.....	4	1	208	185,834
77	Dubois.....	Washington.....	10	1	63	7,293
78	Duquoin.....	Perry.....	10	9	1,323	918,480
79	East Peoria.....	Peoria.....	3	2	70	39,137
80	East St. Louis.....	St. Clair.....	9	2	1,014	866,842
81	Edgemont.....	do.....	9	1	5	1,270
82	Edinburg.....	Christian.....	5	1	14	9,083
83	Edwards.....	Peoria.....	3	7	152	69,930
84	Edwardsville.....	Madison.....	8	4	229	153,961
85	Eldorado.....	Saline.....	11	5	1,269	932,815
86	Ellisville.....	Fulton.....	4	1	8	6,630
87	Elmore.....	Peoria.....	3	1	1	36
88	Elmwood.....	do.....	3	1	4	660
89	Equality.....	Gallatin.....	11	11	156	78,583
90	Fairbury.....	Livingston.....	1	2	86	42,828
91	Fairmount.....	Vermilion.....	5	2	7	350
92	Fairview.....	Fulton.....	4	8	48	10,234
93	Fancy Prairie.....	Menard.....	3	1	9	6,650
94	Farmersville.....	Montgomery.....	7	1	60	26,922
95	Farmington.....	Fulton.....	4	5	719	514,237
96	Fiatt.....	do.....	4	4	39	6,358
97	Frederick.....	Schnyler.....	4	1	1	160
98	Freeburg.....	St. Clair.....	9	5	268	190,584
99	Galatia.....	Saline.....	11	1	45	14,000
100	Galesburg.....	Knox.....	2	1	12	5,200
101	Geneseo.....	Henry.....	2	1	5	2,960
102	Georgetown.....	Vermilion.....	5	2	45	27,730
103	Gillespie.....	Macoupin.....	7	3	1,999	2,347,974
104	Girard.....	do.....	7	1	350	353,002
105	Glasford.....	Peoria.....	3	3	7	2,812
106	Glen Carbon.....	Madison.....	8	2	597	433,317
107	Granville.....	Putnam.....	3	2	1,230	752,729
108	Grape Creek.....	Vermilion.....	5	1	4	2,560
109	Greenfield.....	Greene.....	7	1	10	3,845
110	Greenridge.....	Macoupin.....	7	1	324	209,213
111	Greenview.....	Menard.....	3	1	46	55,948
112	Halidayboro.....	Jackson.....	10	1	252	148,727
113	Hampton.....	Rock Island.....	2	2	6	598
114	Hanaford.....	Franklin.....	11	1	136	111,902
115	Hanna City.....	Peoria.....	3	4	126	69,770
116	Harrisburg.....	Saline.....	11	7	2,269	1,979,002
117	Herrin.....	Williamson.....	12	14	3,551	3,047,166
118	Hillsboro.....	Montgomery.....	7	2	474	518,793
119	Industry.....	McDonough.....	4	3	11	5,350
120	Ipava.....	Fulton.....	4	2	6	1,950
121	Johnston City.....	Williamson.....	12	5	1,238	1,016,864
122	Kangley.....	LaSalle.....	1	1	3	200
123	Kewanee.....	Henry.....	2	16	124	50,641
124	Kingston Mines.....	Peoria.....	3	3	157	115,254
125	Knoxville.....	Knox.....	2	3	7	965
126	Ladd.....	Bureau.....	2	1	583	261,685
127	LaFayette.....	Stark.....	2	1	6	2,496
128	LaSalle.....	LaSalle.....	1	6	1,498	797,699
129	Laura.....	Peoria.....	3	1	2	623
130	Lebanon.....	St. Clair.....	9	1	12	8,625
131	Ledford.....	Saline.....	11	3	834	830,811
132	Lenzburg.....	St. Clair.....	9	4	187	126,951
133	Lewistown.....	Fulton.....	4	11	32	12,503
134	Lincoln.....	Logan.....	6	3	558	400,818
135	Litchfield.....	Montgomery.....	7	1	63	20,593
136	Livingston.....	Madison.....	8	1	590	848,715
137	London Mills.....	Fulton.....	4	1	2	640
138	Lovington.....	Moultrie.....	5	1	109	105,280
139	Macomb.....	McDonough.....	4	6	12	1,965

TABLE 21—Continued

No.	Location of mines	County	Number of—			
			District	Mines	Men	Tons
140	Maples Mill.....	Fulton.....	4	3	8	2, 120
141	Mapleton.....	Peoria.....	3	4	93	51, 749
142	Marietta.....	Fulton.....	4	10	21	4, 175
143	Marion.....	Williamson.....	12	10	1, 584	1, 497, 094
144	Marissa.....	St. Clair.....	9	7	507	295, 381
145	Marquette.....	Bureau.....	2	1	331	155, 609
146	Maryville.....	Madison.....	8	1	472	361, 169
147	Mascoutah.....	St. Clair.....	9	3	239	228, 476
148	Mathersville.....	Mercer.....	2	3	367	284, 508
149	Mathews.....	Jackson.....	10	1	2	550
150	Mayton.....	Fulton.....	4	1	62	40, 584
151	Middlegrove.....	do.....	4	3	10	6, 900
152	Millstadt.....	St. Clair.....	9	4	44	26, 546
153	Mineral.....	Bureau.....	2	1	8	3, 400
154	Minonk.....	Woodford.....	3	1	156	58, 627
155	Mitchellsville.....	Saline.....	11	1	3	700
156	Moline.....	Rock Island.....	2	4	24	11, 341
157	Monmouth.....	Warren.....	2	2	9	1, 540
158	Moro.....	Madison.....	8	1	5	2, 000
159	Morris.....	Grundy.....	1	7	55	15, 551
160	Mt. Olive.....	Macoupin.....	7	3	939	925, 032
161	Mt. Pulaski.....	Logan.....	6	1	33	10, 185
162	Mt. Vernon.....	Jefferson.....	10	1	76	35, 619
163	Moweagua.....	Shelby.....	5	1	103	49, 813
164	Murphysboro.....	Jackson.....	10	5	701	509, 317
165	Murrayville.....	Morgan.....	4	1	4	956
166	Nashville.....	Washington.....	10	1	65	36, 844
167	New Athens.....	St. Clair.....	9	2	27	8, 488
168	New Baden.....	Clinton.....	8	1	409	367, 619
169	New Burnside.....	Johnson.....	12	1	3	940
170	New Windsor.....	Mercer.....	2	2	8	1, 999
171	Niantic.....	Macon.....	5	1	69	38, 877
172	Nokomis.....	Montgomery.....	7	1	61	7, 418
173	Norris.....	Fulton.....	4	4	502	349, 455
174	Norris City.....	White.....	11	1	59	19, 246
175	Oak Hill.....	Peoria.....	3	2	26	7, 010
176	Oakwood.....	Vermilion.....	5	2	45	62, 440
177	Odin.....	Marion.....	8	1	213	197, 058
178	O'Fallon.....	St. Clair.....	9	4	623	357, 050
179	Oglesby.....	LaSalle.....	1	1	426	204, 222
180	Oneida.....	Knox.....	2	3	11	3, 390
181	Opdyke.....	Jefferson.....	10	1	2	40
182	Ottawa.....	LaSalle.....	1	4	17	7, 848
183	Pana.....	Christian.....	5	4	835	502, 650
184	Panama.....	Montgomery.....	7	1	505	542, 473
185	Pawnee.....	Sangamon.....	6	1	390	488, 445
186	Percy.....	Randolph.....	10	3	222	272, 610
187	Pekin.....	Tazewell.....	3	4	268	185, 562
188	Peoria.....	Peoria.....	3	20	1, 017	819, 919
189	Peru.....	LaSalle.....	1	2	298	102, 878
190	Petersburg.....	Menard.....	3	5	110	46, 184
191	Pinckneyville.....	Perry.....	10	4	181	167, 338
192	Pittsburg.....	Williamson.....	12	1	92	35, 396
193	Pleasant Plains.....	Sangamon.....	6	2	10	4, 967
194	Pleasantview.....	Schuyler.....	4	2	3	955
195	Pocahontas.....	Bond.....	8	1	165	139, 783
196	Preemption.....	Mercer.....	2	1	8	4, 050
197	Princeville.....	Peoria.....	3	1	5	1, 880
198	Rapatee.....	Knox.....	2	1	10	3, 134
199	Rend.....	Franklin.....	11	1	297	274, 225
200	Rentchler.....	St. Clair.....	9	2	118	62, 345
201	Riverton.....	Sangamon.....	6	1	420	389, 057
202	Roanoke.....	Woodford.....	3	1	223	120, 868
203	Rock Island.....	Rock Island.....	2	1	6	2, 279
204	Roseville.....	Warren.....	2	1	1	80
205	Royalton.....	Franklin.....	11	1	507	331, 807
206	Rushville.....	Schuyler.....	4	6	17	4, 053
207	Rutland.....	LaSalle.....	1	1	100	34, 548
208	St. David.....	Fulton.....	4	4	291	269, 414
209	St. John.....	Perry.....	10	1	2	457
210	Salsbury.....	Sangamon.....	6	1	4	1, 812
211	Sandoval.....	Marion.....	8	2	336	286, 182
212	Seatonville.....	Bureau.....	2	1	506	212, 813
213	Selbytown.....	Sangamon.....	6	1	168	100, 999
214	Seneca.....	LaSalle.....	1	1	40	11, 373

TABLE 21—*Concluded*

No.	Location of mines	County	Number of—			
			District	Mines	Men	Tons
215	Sesser.....	Franklin.....	11	1	375	471, 408
216	Shawneetown.....	Gallatin.....	11	2	7	2, 040
217	Sheffield.....	Bureau.....	2	3	31	10, 348
218	Shelbyville.....	Shelby.....	5	5	58	7, 399
219	Sheldons Grove.....	Schuyler.....	4	1	1	360
220	Sherman.....	Sangamon.....	6	1	379	314, 646
221	Sherrard.....	Mercer.....	2	1	149	118, 958
222	Smithton.....	St. Clair.....	9	1	3	2, 701
223	Soperville.....	Knox.....	2	1	8	1, 140
224	Sorento.....	Bond.....	8	1	128	92, 216
225	South Wilimington.....	Grundy.....	1	2	589	252, 747
226	Sparland.....	Marshall.....	3	10	154	63, 049
227	Sparta.....	Randolph.....	10	7	447	242, 165
228	Spaulding.....	Sangamon.....	6	1	139	25, 200
629	Springfield.....	do.....	6	19	3, 753	2, 769, 157
230	Spring Valley.....	Bureau.....	2	2	1, 154	511, 314
231	Staunton.....	Macoupin.....	7	4	1, 591	1, 547, 194
232	Steeltton.....	Vermilion.....	5	2	625	309, 148
233	Streator.....	LaSalle.....	1	15	865	464, 041
234	Summum.....	Fulton.....	4	3	9	3, 075
235	Sunfield.....	Perry.....	10	2	42	21, 221
236	Table Grove.....	Fulton.....	4	3	12	3, 300
237	Tallula.....	Menard.....	3	3	49	20, 403
238	Tamaroa.....	Perry.....	10	1	82	13, 794
239	Taylor Springs.....	Montgomery.....	7	1	389	395, 003
240	Taylorville.....	Christian.....	5	4	1, 007	896, 121
241	Tennessee.....	McDonough.....	4	1	2	110
242	Thayer.....	Sangamon.....	6	1	470	551, 787
243	Tice.....	Menard.....	3	1	3	400
244	Tilden.....	Randolph.....	10	2	204	54, 618
245	Toluca.....	Marshall.....	3	1	648	290, 523
246	Torino.....	Will.....	1	1	200	81, 659
247	Toulon.....	Stark.....	2	1	4	2, 085
248	Tower Hill.....	Shelby.....	5	1	210	145, 756
249	Trenton.....	Clinton.....	8	1	200	84, 357
250	Troy.....	Madison.....	8	2	389	197, 695
251	Utica.....	LaSalle.....	1	3	14	3, 753
252	Vergennes.....	Jackson.....	10	1	2	400
253	Vermont.....	McDonough.....	4	1	2	370
254	Victoria.....	Knox.....	2	7	21	4, 210
255	Viola.....	Mercer.....	2	2	7	1, 502
256	Virden.....	Macoupin.....	7	2	739	637, 774
257	Wasson.....	Saline.....	11	1	384	357, 949
258	Wataga.....	Knox.....	2	3	13	5, 641
259	Wenona.....	Marshall.....	3	1	245	115, 028
260	West Frankfort.....	Franklin.....	11	4	984	976, 066
261	Westville.....	Vermilion.....	5	6	2, 536	2, 476, 089
262	Williamsfield.....	Knox.....	2	1	3	600
263	Willisville.....	Perry.....	10	3	372	373, 324
264	Winchester.....	Scott.....	4	2	3	965
265	Witt.....	Montgomery.....	7	2	882	823, 611
266	Worden.....	Madison.....	8	2	212	185, 942
267	Wyoming.....	Stark.....	2	5	48	17, 393
268	Youngstown.....	Warren.....	2	3	9	1, 022
269	Zeigler.....	Franklin.....	11	1	585	568, 844
Total.....			.....	840	79, 497	61, 846, 204

## GRADED OUTPUT

Table 22 shows by districts the total tonnage of the shipping mines, the grades into which it is divided and the number of tons in each grade.

TABLE 22—TOTAL OUTPUT OF SHIPPING AND LOCAL MINES OF THE STATE, WITH TONS OF THE DIFFERENT GRADES OF COAL, BY DISTRICTS—1913

Districts	Total output—tons	Tons of the different grades of coal—					
		Mine run	Lump	Egg	Nut	Pea or screenings	Slack or waste
First.....	1,972,525	277,849	924,599	282,194	25,530	379,535	82,818
Second.....	2,208,343	78,283	1,544,676	168,499	67,420	303,651	45,814
Third.....	2,952,056	707,284	1,430,525	193,320	30,983	390,578	199,866
Fourth.....	2,397,374	244,613	696,566	715,762	72,896	607,065	59,872
Fifth.....	5,406,941	1,790,239	1,901,768	55,076	274,246	1,092,338	293,274
Sixth.....	6,209,181	1,220,625	2,352,594	783,243	168,828	1,582,463	101,428
Seventh.....	7,620,343	2,793,769	1,561,261	1,210,893	23,861	1,527,393	503,166
Eighth.....	6,289,805	1,017,975	2,459,165	844,376	203,277	1,378,108	386,904
Ninth.....	4,637,552	800,794	2,443,185	134,698	98,584	1,104,369	55,922
Tenth.....	3,317,383	1,501,959	792,275	222,045	121,375	640,464	39,265
Eleventh.....	9,818,724	1,019,239	3,209,880	1,365,864	986,983	2,897,809	338,949
Twelfth.....	7,685,189	2,867,200	975,200	843,070	1,055,837	1,761,226	182,656
Shipping mines..	60,515,416	14,319,829	20,291,694	6,819,040	3,129,820	13,665,599	2,289,434
Local mines.....	1,330,788	660,161	558,431	940	245	68,938	42,073
Total.....	61,846,204	14,979,990	20,850,125	6,819,980	3,130,065	13,734,537	2,331,507

Table 23 gives the per cent of the total output of the shipping mines produced in each district. The per cent of each grade of coal is also shown by districts.

TABLE 23—PERCENTAGES OF TOTAL OUTPUT OF THE DIFFERENT GRADES OF COAL, SHIPPING AND LOCAL MINES, BY DISTRICTS—1913

Districts	Percentages of the different grades of coal						
	Percent of total output	Mine run	Lump	Egg	Nut	Pea	Slack or waste
First.....	3.26	14.09	46.87	14.31	1.29	19.24	4.20
Second.....	3.65	3.54	69.95	7.63	3.05	13.75	2.08
Third.....	4.88	23.96	48.46	6.55	1.05	13.23	6.75
Fourth.....	3.96	10.21	29.06	29.82	3.05	25.35	2.51
Fifth.....	8.93	33.11	35.17	1.02	5.07	20.20	5.43
Sixth.....	10.26	19.66	37.89	12.61	2.72	25.49	1.63
Seventh.....	12.59	36.68	20.49	15.88	0.30	20.04	6.61
Eighth.....	10.39	16.18	39.10	13.43	3.23	21.91	6.15
Ninth.....	7.67	17.27	52.68	2.90	2.13	23.81	1.21
Tenth.....	5.48	45.28	23.88	6.69	3.66	19.31	1.18
Eleventh.....	16.23	10.38	32.69	13.92	10.05	29.51	3.45
Twelfth.....	12.70	37.32	12.69	10.96	13.74	22.91	2.38
Shipping mines..	100.00	23.66	33.53	11.27	5.17	22.58	3.79
Local mines.....	100.00	49.61	41.96	0.07	0.01	5.18	3.17

Table 24 shows the total output of all mines, the number of tons in each grade and the per cent the tonnage of each grade is of the total output, and is for fourteen consecutive years.



TABLE 24—TOTAL OUTPUT OF THE DIFFERENT GRADES OF COAL, ALL MINES, FOR FOURTEEN YEARS WITH PERCENTAGES

Year	Total output—tons	Tons of the different grades of coal					
		Mine run	Lump	Egg	Nut	Pea	Slack or waste
1900.....	25,153,929	5,554,417	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,217,127	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	680,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,097	15,874,509	995,163	1,755,704	4,540,431	1,416,195
1904.....	37,077,897	10,627,904	16,888,010	1,014,700	1,602,383	5,751,570	1,193,330
1905.....	37,183,374	9,248,558	16,819,321	1,716,219	2,036,152	6,247,511	1,115,613
1906.....	38,317,581	9,777,905	16,878,088	1,850,427	1,931,988	6,622,087	1,257,086
1907.....	47,798,621	11,628,302	20,599,509	2,469,442	2,625,306	9,138,044	1,338,018
1908.....	49,272,452	11,224,540	21,166,563	2,594,336	2,788,120	9,640,914	1,857,979
1909.....	49,163,710	8,715,759	21,680,602	3,444,612	2,944,036	10,587,057	1,791,644
1910.....	48,717,853	10,220,456	20,769,930	3,334,059	2,846,693	10,174,677	1,372,038
1911.....	50,165,099	13,025,663	19,588,409	3,725,073	2,425,712	10,268,458	1,131,184
1912.....	57,514,240	13,366,509	21,795,527	4,940,431	3,193,956	11,109,191	3,108,626
1913.....	61,846,204	14,979,990	20,850,125	6,819,980	3,130,065	13,734,537	2,331,507
Percentages—							
1900.....		22.08	55.37	1.97	5.26	11.18	4.14
1901.....		25.84	50.01	1.83	4.57	13.77	3.98
1902.....		23.27	50.10	2.27	5.28	15.34	3.74
1903.....		29.70	45.41	2.84	5.02	12.98	4.05
1904.....		28.66	45.55	2.73	4.32	15.51	3.23
1905.....		24.87	45.23	4.62	5.48	16.80	3.00
1906.....		25.52	44.04	4.83	5.04	17.28	3.28
1907.....		24.33	43.09	5.17	5.49	19.12	2.80
1908.....		22.78	42.96	5.27	5.66	19.57	3.76
1909.....		17.73	44.10	7.01	5.99	21.53	3.64
1910.....		20.98	42.63	6.84	5.84	20.89	2.82
1911.....		25.96	39.05	7.43	4.84	20.47	2.25
1912.....		23.25	37.91	8.60	5.56	19.32	5.36
1913.....		24.22	33.71	11.03	5.06	22.21	3.77

Table 25 is a condensed record of the production of all mines of the State for the years 1882 to 1913, inclusive, and shows the number of counties contributing, the number of mines operated, the number of men employed and the number of tons produced.

TABLE 25—OUTPUT OF THE STATE FOR THIRTY-TWO YEARS AND THE MINES AND MEN PRODUCING THE SAME

Year	Number of—				Tons of—		Percentage of—	
	Counties	Mines	Men	Tons	Lump	Other grades	Lump	Other grades
1882.....	42	704	20,290	11,017,653	9,115,653	1,901,506	.....	.....
1883.....	47	639	23,939	12,123,456	10,030,991	2,092,565	.....	.....
1884.....	49	741	25,575	12,208,073	10,101,005	2,107,070	.....	.....
1885.....	50	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886.....	50	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887.....	49	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888.....	50	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889.....	49	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890.....	57	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891.....	57	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892.....	55	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893.....	56	788	35,390	19,949,464	16,112,899	3,836,665	80.77	19.23
1894.....	56	836	38,477	17,113,576	13,865,284	3,248,292	81.02	18.98
1895.....	54	874	38,630	17,735,864	14,045,962	3,689,902	79.25	20.75
1896.....	51	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897.....	50	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90

TABLE 25—*Concluded*

Year	Number of—				Tons of—		Percentage of—	
	Coun- ties	Mines	Men	Tons	Lump	Other grades	Lump	Other grades
1898.....	52	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899.....	52	889	36,991	23,434,454	17,427,598	6,006,847	74.37	25.63
1900.....	52	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901.....	53	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902.....	54	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903.....	53	933	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59
1904.....	54	932	54,774	37,077,897	16,888,010	20,189,887	45.55	54.45
1905.....	56	990	59,230	37,183,374	16,819,321	20,364,053	45.23	54.77
1906.....	54	1,018	62,283	38,317,581	16,878,088	21,439,493	44.05	55.95
1907.....	55	933	66,714	47,798,621	20,599,509	27,199,112	43.10	56.90
1908.....	54	922	70,841	49,272,452	21,166,563	28,105,889	42.96	57.04
1909.....	55	886	72,733	49,163,710	21,680,602	27,483,108	44.10	55.90
1910.....	55	881	74,634	48,717,853	20,769,930	27,947,923	42.63	57.37
1911.....	53	845	77,410	50,165,099	19,588,409	30,576,690	39.05	60.95
1912.....	52	879	79,411	57,514,240	21,795,527	35,718,713	37.90	62.10
1913.....	53	840	79,497	61,846,204	20,850,125	40,996,079	33.71	66.29

Table 26 shows, for a series of thirty-two years, the number of men, the total output in tons and the per cent of gain or loss from year to year.

TABLE 26—TOTAL NUMBER OF MEN AND TOTAL TONS PRODUCED, WITH PERCENTAGE OF GAIN OR LOSS, FOR THIRTY-TWO YEARS

Year	Men	Total output— tons	Percentage of men		Percentage of tons	
			Gain	Loss	Gain	Loss
1882.....	20,290	11,017,069	.....	.....	.....	.....
1883.....	23,939	12,132,451	17.98	.....	10.04	.....
1884.....	25,575	12,208,075	6.83	.....	.70	.....
1885.....	25,946	11,834,459	1.45	.....	.....	3.06
1886.....	15,846	11,175,241	.....	.32	.....	5.57
1887.....	26,804	12,423,066	3.71	.....	11.17	.....
1888.....	29,410	14,328,181	9.72	.....	15.34	.....
1889.....	30,076	14,017,298	2.26	.....	.....	2.17
1890.....	28,574	15,274,727	.....	5.00	8.97	.....
1891.....	32,951	15,660,698	15.31	.....	3.53	.....
1892.....	33,632	17,862,276	2.07	.....	14.06	.....
1893.....	35,390	19,949,564	5.23	.....	11.69	.....
1894.....	38,477	17,113,576	8.72	.....	.....	14.22
1895.....	38,630	17,735,864	.40	.....	3.64	.....
1896.....	37,057	19,786,626	.....	4.07	11.56	.....
1897.....	33,788	20,072,758	.....	8.82	1.45	.....
1898.....	35,026	18,599,299	3.66	.....	.....	7.34
1899.....	36,991	23,434,445	5.61	.....	26.00	.....
1900.....	39,384	25,153,929	6.47	.....	7.34	.....
1901.....	44,143	26,635,319	12.08	.....	5.89	.....
1902.....	46,005	30,021,300	4.21	.....	12.71	.....
1903.....	49,814	34,955,400	8.28	.....	16.44	.....
1904.....	54,774	37,077,897	9.96	.....	6.07	.....
1905.....	59,230	37,183,374	8.14	.....	.28	.....
1906.....	62,283	38,317,581	5.15	.....	3.05	.....
1907.....	66,714	47,798,621	7.11	.....	24.74	.....
1908.....	70,841	49,272,452	6.19	.....	3.08	.....
1909.....	72,733	49,163,710	2.67	.....	.....	.22
1910.....	74,634	48,717,853	2.61	.....	.....	.91
1911.....	77,410	50,165,099	3.72	.....	2.97	.....
1912.....	79,411	57,514,240	2.58	.....	14.65	.....
1913.....	79,497	61,846,204	.11	.....	7.53	.....



## OUTPUT BY MONTHS

Table 27 gives the production of the shipping mines in each county and district for each month of the fiscal year, also for the seven preceding years.

TABLE 27.—TOTAL OUTPUT OF SHIPPING MINES PRODUCED IN EACH CALENDAR MONTH, BY COUNTIES AND DISTRICTS

Counties and districts	Total tons	1912—output for the months of—							1913—output for the months of—						
		July	August	September	October	November	December		January	February	March	April	May	June	
Grundy.....	411,964	20,022	33,355	31,379	53,441	52,199	50,850		43,890	37,643	32,328	20,639	20,133	16,085	
LaSalle.....	1,352,945	78,081	99,888	109,450	144,810	134,634	141,550		150,004	110,725	136,098	102,018	87,822	87,864	
Livingston.....	28,875	1,512	2,343	2,390	2,330	2,952	2,219		3,387	2,859	2,247	2,028	2,979	1,969	
Will.....	148,741	6,635	11,446	11,736	15,614	15,189	15,869		16,008	13,789	12,231	11,995	9,719	8,510	
First District.....	1,972,525	106,250	146,680	154,908	216,255	204,974	210,488		213,289	165,016	182,904	136,680	120,653	114,428	
Bureau.....	1,784,688	120,603	123,347	123,191	161,295	162,855	178,614		186,796	157,023	181,621	142,487	120,685	126,168	
Henry.....	4,668				161,571	162,645	815		656	750	634	200			
Mercer.....	403,466	24,455	35,125	28,605	44,650	47,305	42,544		34,588	31,247	37,810	25,630	24,328	27,149	
Rock Island.....	9,268	1,408	1,143	1,029	1,124	912	1,010		1,083	814	713	2	30		
Stark.....	6,753	219	208	672	1,210	695	1,040		968	678	570	147	193	93	
Second District.....	2,208,343	146,715	159,883	153,497	208,850	212,412	224,023		224,091	190,512	221,248	168,466	145,236	133,410	
Marshall.....	465,028	34,069	41,485	38,614	50,143	45,666	44,671		44,759	38,147	38,571	30,502	29,693	28,708	
Menard.....	150,167	5,206	7,999	12,663	16,081	15,996	20,636		16,905	16,033	12,947	9,288	8,140	8,273	
Peoria.....	1,133,854	65,622	80,465	93,220	128,262	119,004	127,894		116,545	106,079	99,645	74,249	65,806	57,054	
Putnam.....	752,729	59,057	68,005	64,086	75,514	65,448	67,262		72,754	50,372	74,085	61,336	34,918	59,942	
Tazewell.....	270,783	15,382	17,246	18,161	22,785	24,268	29,354		32,774	28,168	26,724	19,317	17,929	18,675	
Woodford.....	179,495	10,450	14,073	16,484	21,722	17,639	16,081		19,135	17,272	17,373	9,746	9,974	9,246	
Third District.....	2,952,056	189,786	229,273	243,297	314,507	288,321	305,898		302,872	256,071	269,295	204,438	166,460	181,898	
Fulton.....	2,397,374	140,801	171,735	199,885	278,464	246,034	258,073		234,813	194,187	210,283	162,481	157,673	142,945	
Fourth District.....	2,397,374	140,801	171,735	199,885	278,464	246,034	258,073		234,813	194,187	210,283	162,481	157,673	142,945	
Christian.....	1,481,737	78,627	102,283	107,836	163,027	165,482	177,415		157,154	124,799	122,785	115,029	82,837	84,463	
Macon.....	279,732	17,057	28,696	31,918	41,444	33,049	29,058		27,236	25,394	23,510	8,600	7,595	6,112	
Montrie.....	105,280	4,705	5,706	5,646	11,326	11,896	12,746		9,618	9,199	6,195	10,392	9,146	8,705	

TABLE 27—*Concluded*

Counties and districts	Total tons	1912—output for the months of—						1913—output for the months of—					
		July	August	Septem-ber	October	Novem-ber	Decem-ber	January	February	March	April	May	June
Shelby.....	195,569	10,828	16,654	18,887	20,243	19,400	21,874	19,206	17,116	16,342	15,771	7,835	11,413
Vermilion.....	3,344,623	247,810	256,714	240,807	303,496	304,861	311,270	305,190	288,763	297,337	259,593	268,712	260,070
Fifth District.....	5,406,941	359,027	410,056	405,094	539,536	534,688	552,363	518,404	465,271	466,169	409,445	376,125	370,763
Logan.....	411,003	17,922	30,800	43,024	54,989	51,406	55,502	41,556	36,867	31,817	23,676	10,624	12,870
McLean.....	43,236	4,041	6,948	6,838	9,913	10,030	11,157	11,632	10,500	8,506	5,386	4,911	4,374
Sangamon.....	5,704,942	299,186	397,513	473,562	602,524	608,076	633,527	628,270	491,866	489,399	444,946	308,330	327,743
Sixth District.....	6,209,181	321,149	434,261	523,424	667,376	669,512	700,186	681,458	539,233	529,722	474,008	323,865	344,987
Macoupin.....	5,202,014	381,485	414,654	441,752	545,978	529,765	501,855	500,397	387,587	391,878	395,288	351,946	359,429
Montgomery.....	2,418,329	142,977	171,111	175,034	222,187	228,400	259,141	243,270	200,991	198,850	190,128	190,630	195,610
Seventh District.....	7,620,343	524,462	585,765	616,786	768,165	758,165	760,996	743,667	588,578	590,728	585,416	542,576	555,039
Bond.....	231,999	12,336	18,125	22,596	29,539	27,116	23,272	25,225	19,230	18,844	10,740	11,971	13,005
Clinton.....	1,036,303	65,874	84,240	118,175	124,655	99,975	109,201	114,269	91,519	85,922	45,511	39,150	57,822
Madison.....	3,832,952	240,862	331,380	320,068	438,591	418,414	400,262	357,751	310,550	325,521	259,358	235,650	194,545
Marion.....	1,188,551	126,111	115,392	118,260	121,833	114,577	127,455	121,778	80,337	74,667	77,831	60,541	49,749
Eighth District.....	6,289,805	445,183	549,137	579,099	714,638	660,082	660,190	619,013	501,636	504,954	393,440	347,312	315,121
St. Clair.....	4,637,552	289,471	353,288	348,654	503,161	501,434	513,180	433,405	408,029	379,250	329,987	301,302	276,391
Ninth District.....	4,637,552	289,471	353,288	348,654	503,161	501,434	513,180	433,405	408,029	379,250	329,987	301,302	276,391
Jackson.....	702,985	51,011	81,050	68,843	66,395	64,048	73,175	60,969	59,438	52,235	48,535	40,019	37,267
Jefferson.....	35,619	1,435	1,436	1,459	3,115	3,106	4,414	3,702	4,016	3,614	2,873	3,229	3,200
Perry.....	1,634,214	111,729	136,049	134,448	141,843	144,983	162,616	156,353	135,879	143,902	115,674	119,614	131,122
Randolph.....	699,983	56,748	65,886	57,046	57,514	64,165	79,411	61,334	63,157	61,462	40,294	47,107	49,859
Washington.....	244,582	13,751	19,709	14,451	32,254	36,488	37,297	14,690	3,521	2,209	9,294	30,409	30,479
Tenth District.....	3,317,383	234,674	304,150	272,277	301,121	312,792	356,913	297,048	266,011	263,422	216,670	240,378	251,927
Franklin.....	5,232,526	343,600	481,090	428,704	493,669	494,374	512,892	515,947	428,443	398,370	393,880	329,846	411,702
Gallatin.....	68,739	3,545	4,461	6,118	8,264	9,429	8,385	6,968	5,838	5,527	3,327	3,684	3,193

Saline.....	4, 498, 213	297, 050	363, 838	363, 660	498, 597	423, 229	404, 624	454, 060	377, 579	376, 690	219, 463	348, 538	310, 730
White.....	19, 246	835	1, 079	2, 112	3, 982	3, 526	3, 467	1, 335	1, 922	661	.....	.....	327
Eleventh District.....	9, 818, 724	645, 030	850, 532	800, 594	1, 004, 512	930, 658	989, 368	978, 310	813, 752	781, 248	616, 670	682, 068	725, 952
Williamson.....	7, 685, 189	511, 250	661, 750	646, 484	801, 535	805, 500	838, 012	773, 924	553, 022	565, 931	565, 599	520, 344	441, 838
Twelfth District.....	7, 685, 189	511, 250	661, 750	646, 484	801, 535	805, 500	838, 012	773, 924	553, 022	565, 931	565, 599	520, 344	441, 838
The State, 1913.....	60, 515, 416	3, 913, 798	4, 856, 510	4, 943, 939	6, 318, 120	6, 124, 572	6, 369, 690	6, 020, 294	4, 941, 348	4, 965, 154	4, 263, 300	3, 923, 902	3, 874, 699
The State, 1912.....	56, 096, 695	3, 688, 110	4, 449, 453	4, 582, 761	4, 292, 558	5, 694, 917	5, 809, 664	6, 004, 637	6, 435, 284	7, 836, 392	42, 393	2, 889, 866	3, 365, 400
The State, 1911.....	48, 788, 657	1, 709, 521	2, 413, 674	3, 580, 137	5, 451, 241	5, 876, 969	5, 708, 701	5, 038, 023	3, 957, 373	4, 209, 260	3, 671, 457	3, 548, 713	3, 473, 588
The State, 1910.....	47, 225, 201	3, 304, 331	3, 739, 353	4, 412, 740	5, 235, 286	5, 219, 082	5, 242, 614	5, 722, 496	5, 551, 940	7, 026, 402	23, 966	109, 662	1, 637, 199
The State, 1909.....	47, 953, 562	2, 978, 427	3, 809, 419	4, 298, 981	5, 019, 764	4, 523, 011	4, 748, 402	4, 611, 015	4, 107, 510	4, 148, 613	3, 470, 361	3, 145, 748	3, 067, 311
The State, 1908.....	47, 809, 730	3, 544, 763	4, 112, 544	4, 222, 617	5, 279, 014	5, 097, 806	4, 887, 077	4, 408, 282	4, 566, 526	6, 056, 194	1, 400, 640	2, 081, 853	3, 463, 414
The State, 1907.....	46, 436, 839	2, 884, 310	3, 244, 518	3, 478, 829	4, 282, 628	4, 343, 762	4, 613, 382	4, 852, 163	4, 254, 985	3, 734, 138	3, 572, 474	3, 784, 770	3, 393, 880
The State, 1906.....	37, 096, 945	1, 891, 717	2, 840, 419	3, 117, 045	3, 578, 312	3, 880, 503	4, 178, 029	4, 288, 706	4, 336, 350	5, 378, 459	392, 382	659, 019	2, 556, 094

Table 28 is a recapitulation by districts of Table 27.

TABLE 28—RECAPITULATION OF TABLE 27—TOTAL OUTPUT OF SHIPPING MINES PRODUCED IN EACH CALENDAR MONTH, BY DISTRICTS

Districts	Total tons	1912—output for the months of—						1913—output for the months of—					
		July	August	Sep-tember	October	No-vember	De-cember	January	February	March	April	May	June
First.....	1,972,525	106,250	146,680	154,908	216,255	204,974	210,488	213,289	165,016	182,904	136,680	120,653	114,428
Second.....	2,208,343	146,715	139,883	153,497	208,850	212,412	224,023	224,091	190,312	221,248	108,466	145,236	155,410
Third.....	2,952,056	189,786	229,273	213,237	314,507	285,321	305,898	302,872	256,071	269,295	204,438	166,460	181,898
Fourth.....	2,397,374	140,801	171,735	199,885	278,464	246,034	258,073	234,813	194,187	210,283	162,481	157,673	142,945
Fifth.....	5,406,941	359,027	410,056	405,094	539,536	534,688	552,363	518,404	465,271	466,169	409,445	376,125	370,763
Sixth.....	6,209,181	321,149	434,261	523,424	667,376	669,512	700,166	681,458	539,233	529,722	474,008	323,865	344,987
Seventh.....	7,620,343	524,462	585,765	616,786	768,165	758,165	760,996	743,667	588,578	590,728	585,416	542,576	555,039
Eighth.....	6,289,805	445,183	579,099	579,099	714,638	660,982	660,190	619,013	501,636	504,954	393,440	347,332	315,121
Ninth.....	4,637,552	289,471	353,288	348,654	503,161	501,434	513,180	433,405	408,029	379,250	329,987	301,302	276,391
Tenth.....	3,317,383	294,674	304,150	272,277	301,121	312,792	356,913	297,048	266,011	263,422	216,670	240,378	251,927
Eleventh.....	9,818,724	645,030	850,532	800,594	1,004,512	930,658	980,368	978,310	813,782	781,248	616,670	682,068	725,952
Twelfth.....	7,685,189	511,250	661,750	646,484	801,535	805,300	838,012	778,924	553,022	565,831	565,599	520,344	441,838
The State, 1913.....	60,515,416	3,913,798	4,856,510	4,943,939	6,318,120	6,124,572	6,369,690	6,020,294	4,941,348	4,965,154	4,263,300	3,923,992	3,874,099
The State, 1912.....	56,096,695	3,688,110	4,449,453	4,582,761	4,292,558	5,699,917	5,809,664	6,004,637	6,435,284	7,836,392	42,593	2,889,866	3,365,460
The State, 1911.....	48,758,657	1,769,521	2,413,674	3,580,137	5,451,241	5,876,969	5,768,702	5,038,023	3,957,373	4,209,260	3,671,457	3,518,713	3,473,588
The State, 1910.....	47,225,201	3,304,331	3,739,383	4,412,740	5,235,286	5,219,082	5,212,614	5,722,496	5,551,940	7,026,402	23,966	109,662	1,637,199
The State, 1909.....	47,958,562	2,978,427	3,809,419	4,298,981	5,019,764	4,523,011	4,748,402	4,611,015	4,107,510	4,148,613	3,470,361	3,145,748	3,067,311
The State, 1908.....	47,809,780	3,544,763	4,112,514	4,222,617	5,279,014	5,097,806	4,837,077	4,408,282	4,566,526	6,055,194	1,400,640	2,081,850	3,463,414
The State, 1907.....	46,436,839	2,884,310	3,244,518	3,478,829	4,282,628	4,343,762	4,613,382	4,852,163	4,254,985	3,731,138	3,572,474	3,784,770	3,393,880
The State, 1906.....	37,096,945	1,891,717	2,840,419	3,117,045	3,578,312	3,880,303	4,178,029	4,288,706	4,336,350	5,378,459	3,392,382	659,019	2,556,094

Table 29 gives the percentage of the output produced each month, by districts.

TABLE 29—PERCENTAGE OF THE TOTAL OUTPUT MINED IN EACH MONTH, BY DISTRICTS

Districts	Percentages of the total output mined in each district during the month of—											
	1912						1913					
	July	August	September	October	November	December	January	February	March	April	May	June
First.....	5.38	7.44	7.85	11.47	10.39	10.67	10.81	8.37	9.27	6.93	5.62	5.80
Second.....	6.65	7.24	6.96	9.46	9.62	10.15	10.11	8.63	10.02	7.63	6.58	6.95
Third.....	6.43	7.77	8.24	10.65	9.77	10.36	10.26	8.67	9.12	6.93	5.64	6.16
Fourth.....	5.87	7.13	8.34	11.62	10.27	10.77	8.80	8.10	8.78	6.78	6.58	5.96
Fifth.....	6.64	7.75	7.50	9.98	9.89	10.22	9.59	8.61	8.62	7.58	6.76	6.86
Sixth.....	5.17	6.99	8.43	10.75	10.78	11.28	10.98	8.68	8.53	7.63	5.22	5.56
Seventh.....	6.88	7.68	8.10	10.08	9.95	9.99	9.76	7.73	7.75	7.69	7.11	7.28
Eighth.....	7.08	8.73	9.21	11.36	10.49	10.50	9.84	7.98	8.03	6.25	5.52	5.01
Ninth.....	6.24	7.62	7.52	10.83	10.82	11.07	9.56	8.80	8.18	7.10	6.50	5.76
Tenth.....	7.07	9.16	8.21	9.08	9.43	10.76	8.95	8.02	7.94	6.53	7.25	7.60
Eleventh.....	6.57	8.66	8.14	10.23	9.48	10.08	9.96	8.29	7.96	6.28	6.95	7.40
Twelfth.....	6.65	8.61	8.41	10.43	10.48	10.91	10.07	7.20	7.36	7.36	6.77	5.75
The State, 1913.....	6.47	8.03	8.17	10.45	10.12	10.53	9.94	8.16	8.20	7.05	6.48	6.40
The State, 1912.....	6.58	7.93	8.12	7.65	10.17	10.36	10.71	13.28	13.97	0.08	5.15	6.00
The State, 1911.....	3.63	4.95	7.14	11.18	12.05	11.83	10.33	8.12	8.82	7.53	7.34	7.08
The State, 1910.....	7.00	7.92	9.34	11.08	11.05	11.10	12.12	11.76	14.88	0.05	0.23	3.47
The State, 1909.....	6.21	7.94	8.96	10.47	9.43	9.90	9.68	8.56	8.65	7.24	6.56	6.40
The State, 1908.....	7.41	8.60	8.83	11.04	10.67	10.12	9.22	9.55	12.07	0.29	4.38	7.22
The State, 1907.....	6.21	6.99	7.49	9.22	9.35	9.44	10.45	9.16	8.04	7.69	8.15	7.31
The State, 1906.....	5.10	7.66	8.40	9.64	10.46	11.26	11.56	11.69	14.15	1.06	1.78	6.89

Table 30 shows the total output by districts and the number of tons mined in each half of the year, with the per cent produced in each period.

TABLE 30—TONS AND PERCENTAGES OF OUTPUT OF SHIPPING MINES FOR THE FIRST AND SECOND SIX MONTHS OF THE FISCAL YEAR 1913

Districts	Total output—tons	Output six months July 1 to Dec. 31, 1912		Output six months Jan. 1 to June 30, 1913	
		Tons	Per cent	Tons	Per cent
First.....	1,972,525	1,039,555	52.70	932,970	47.30
Second.....	2,208,343	1,105,380	50.05	1,102,963	49.95
Third.....	2,952,056	1,571,013	53.22	1,381,043	46.78
Fourth.....	2,397,374	1,294,992	54.02	1,102,382	45.98
Fifth.....	5,406,941	2,800,764	51.80	2,606,177	48.20
Sixth.....	6,209,181	3,315,908	53.40	2,893,273	46.60
Seventh.....	7,620,343	4,014,339	52.68	3,606,004	47.32
Eighth.....	6,289,805	3,608,329	57.37	2,681,476	42.63
Ninth.....	4,637,552	2,509,188	54.11	2,128,364	45.89
Tenth.....	3,317,383	1,781,927	53.71	1,535,456	46.29
Eleventh.....	9,818,724	5,220,694	53.17	4,598,033	46.83
Twelfth.....	7,685,189	4,264,531	55.48	3,420,658	44.52
The State, 1913.....	60,515,416	32,526,620	53.74	27,988,796	46.26
The State, 1912.....	56,096,695	29,522,463	52.63	26,574,232	47.37
The State, 1911.....	48,758,657	24,860,243	50.98	23,898,414	49.02
The State, 1910.....	47,225,205	27,153,536	57.50	20,071,665	42.50
The State, 1909.....	47,958,562	25,377,999	52.92	22,580,563	47.08
The State, 1908.....	47,809,730	27,093,821	56.67	20,715,909	43.33
The State, 1907.....	46,436,839	22,847,429	49.20	23,589,410	50.80
The State, 1906.....	37,096,945	19,486,025	52.53	17,610,920	47.47

## DAYS OF OPERATION

Table 31. This table discloses the number of days each shipping mine was operated in each month of the year, with the average days worked, by counties and districts.

TABLE 31—DAYS WORKED IN EACH CALENDAR MONTH, BY COUNTIES AND DISTRICTS

Number	Name of operators	Postoffice address of mine	Days in operation												Total
			1912						1913						
			July	August	September	October	November	December	January	February	March	April	May	June	
GRUNDY COUNTY—FIRST DISTRICT															
1	Chicago, Wilm. & Ver. Coal Co., No. 1.....	South Wilmington.....	9	15	12	19	22	20	16	13	13	9	9	8	165
2	Chicago, Wilm. & Ver. Coal Co., No. 3.....	..do.....	9	14	12	17	19	22	16	13	15	9	9	8	163
3	Big Four-Wilm. Coal Co.....	Coal City.....	5	9	9	21	14	15	12	9	9	8	8	9	128
4	Wilmington Star Mining Co., No. 7.....	..do.....	7	8	12	18	16	13	17	13	12	12	13	10	151
5	Wilmington Star Mining Co., No. 6.....	..do.....	6	9	12	18	14	13	12	13	11	9	.....	.....	117
Average.....			7	11	11	19	17	17	15	12	12	9	10	9	145
LASALLE COUNTY—FIRST DISTRICT															
1	LaSalle County Carbon Coal Co., No. 5.....	LaSalle.....	18	19	22	22	21	20	23	12	19	17	8	18	219
2	Oglesby Coal Co.....	Oglesby.....	14	17	24	25	23	21	24	12	23	23	18	17	241
3	LaSalle County Carbon Coal Co., No. 1.....	LaSalle.....	15	21	21	26	20	22	17	18	20	15	15	15	225
4	LaSalle County Carbon Coal Co., LaSalle.....	..do.....	13	19	20	25	21	24	24	17	22	14	13	12	224
5	Chicago, Wilm. & Verm. Coal Co., No. 2.....	Streator.....	15	13	14	23	18	23	21	19	18	18	17	16	215
6	Chicago, Wilm. & Verm. Coal Co., No. 3.....	..do.....	17	25	23	26	22	24	24	21	22	22	23	25	274
7	LaSalle County Carbon Coal Co., Union.....	LaSalle.....	.....	.....	.....	25	23	23	23	21	22	16	13	15	185
8	Harrison Coal Co.....	Streator.....	.....	10	17	26	24	25	23	21	24	23	24	20	237
9	Acme Coal Co.....	..do.....	7	9	14	24	24	23	24	16	22	.....	14	9	185
10	Illinois Zinc Co.....	Peru.....	22	24	24	27	24	24	26	22	25	25	26	24	293
11	Cahill Coal Co., No. 1.....	..do.....	16	14	16	24	23	23	25	24	24	20	17	15	241
12	Rutland Coal Co.....	Rutland.....	13	16	15	22	21	19	19	11	14	11	7	12	180
13	G. J. Coal Co., No. 1.....	Seneca.....	22	24	24	26	24	24	26	26	24	24	20	22	286
Average.....			16	18	20	25	22	23	23	19	21	19	18	18	231



LIVINGSTON COUNTY—FIRST DISTRICT														
1	Fairbury Coal Co.	26	27	26	26	25	25	26	24	26	16	26	26	299
	Average	26	27	26	26	25	25	26	24	26	16	26	26	299
WILL COUNTY—FIRST DISTRICT														
1	Wilmington Coal Mining & Mfg. Co., No. 6.	6	15	14	16	19	20	23	15	16	16	18	16	194
2	Murphy, Linskey & Kasher Coal Co., No. 4.	13	14	16	13	18	20	16	20	16	14	12	12	194
	Average	10	15	15	15	19	20	15	18	16	15	15	19	194
The district.														
		13	16	17	23	22	21	21	18	19	18	15	15	210
BUREAU COUNTY—SECOND DISTRICT														
1	St. Paul Coal Co., No. 2.	25	25	24	26	23	24	26	23	25	24	22	24	292
2	Spring Valley Coal Co., No. 5.	27	29	14	16	19	25	24	22	25	16	13	14	229
3	Spring Valley Coal Co., No. 1.	15	21	22	23	23	22	24	18	18	16	14	14	227
4	Illinois Third Vein Coal Co., No. 1.	14	13	23	25	24	24	25	17	23	22	16	22	253
5	Spring Valley Coal Co., No. 3.	.....	.....	12	25	23	23	25	16	17	17	14	14	186
6	Spring Valley Coal Co., No. 4.	27	18	13	15	18	23	21	20	25	15	12	12	219
7	Marquette Third Vein Coal Co., No. 1.	16	12	20	22	21	20	21	19	20	15	15	15	225
	Average	21	19	18	22	22	23	24	19	22	18	15	16	232
HENRY COUNTY—SECOND DISTRICT														
1	Kewanee Coal Co., No. 2.	.....	.....	.....	18	16	13	19	20	17	10	.....	.....	123
	Average	.....	.....	.....	18	16	13	19	20	17	10	.....	.....	123
MERCER COUNTY—SECOND DISTRICT														
1	Coal Valley Mining Co., No. 3.	12	15	10	22	24	22	20	17	22	13	14	16	207
2	Alden Coal Co., No. 7.	11	17	13	25	25	22	18	13	14	7	9	11	185
3	Coal Valley Mining Co., No. 2.	19	22	24	23	23	19	18	18	19	18	18	16	237
4	Fulton County Coal Co., No. 2.	.....	.....	.....	.....	.....	.....	2	.....	3	16	14	12	47
	Average	16	15	16	18	24	21	15	16	15	14	14	14	169
ROCK ISLAND COUNTY—SECOND DISTRICT														
1	Central Illinois Fuel Co., No. 1.	23	21	20	26	20	22	23	18	13	1	1	.....	188
	Average	23	21	20	26	20	22	23	18	13	1	1	.....	188
STARK COUNTY—SECOND DISTRICT														
1	Wyoming Mining Co.	6	7	20	25	14	13	17	10	12	8	5	2	149
	Average	6	7	20	25	14	13	17	10	12	8	5	2	149
The district.														
		18	18	18	22	21	22	20	18	18	14	13	14	198

TABLE 31—Continued

Number	Name of operators	Postoffice address of mine	Days in operation												Total
			1912						1913						
			July	August	September	October	November	December	January	February	March	April	May	June	
MARSHALL COUNTY—THIRD DISTRICT															
1	Toluca Coal Co., No. 1.....	Toluca.....	29	23	29	26	24	22	25	26	26	25	22	10	301
2	Wenona Coal Co., No. 1.....	Wenona.....	13	21	22	26	23	22	19	21	16	11	10	.....	214
3	Illinois Valley Coal Co., No. 2.....	Spartand.....	23	21	19	22	22	21	19	19	22	11	.....	.....	199
4	Illinois Valley Coal Co., No. 2.....	do.....	22	19	22	27	17	14	23	21	12	13	12	9	127
5	Fulton County Mining Co., No. 1.....	do.....	14	22	20	20	10	23	16	16	4	.....	.....	.....	215
6	Illinois Valley Coal Co., No. 3.....	do.....	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	107
	Average.....	.....	20	21	22	24	19	21	19	21	16	15	15	14	194
MENARD COUNTY—THIRD DISTRICT															
1	Wabash Coal Co., No. 2.....	Athens.....	5	8	15	16	16	17	12	14	10	6	8	5	132
2	South Mountain Coal Co.....	Petersburg.....	18	26	21	21	17	22	18	11	12	10	12	10	198
3	Greenview Mining Co., No. 1.....	Greenview.....	19	24	20	23	21	21	20	20	19	18	16	21	242
4	Menard County Coal Co., No. 1.....	Tallula.....	.....	.....	.....	10	15	20	15	20	15	15	10	24	144
	Average.....	.....	14	19	19	18	17	20	16	16	19	11	12	15	179
PEORIA COUNTY—THIRD DISTRICT															
1	Clark Coal & Coke Co., No. 2.....	Peoria.....	19	20	23	26	23	23	20	14	18	17	11	10	224
2	Wolschlog Co. Oper. C. Co.....	do.....	25	27	19	24	21	24	25	24	22	18	19	15	263
3	Crescent Coal Co., No. 1.....	do.....	9	14	17	27	22	25	21	22	23	12	7	4	203
4	Brewster & Evans Co.....	do.....	20	21	18	23	22	26	24	25	24	23	26	26	278
5	Newsam Bros., No. 3.....	Kingston Mines.....	20	19	21	27	23	23	26	26	19	22	20	20	259
6	Peoria Dist. Col. Co., No. 3.....	South Bartonville.....	12	14	22	25	24	25	26	22	25	20	20	18	253
7	Loran Coal Co., No. 1.....	Hanna City.....	8	10	14	20	25	25	25	23	10	.....	.....	.....	160
8	Warsaw Coal Co.....	Edwards.....	5	13	17	26	22	22	20	14	9	9	9	8	174
9	Collier Co-operative Coal Co.....	Bartonville.....	.....	6	19	22	18	22	17	19	23	20	23	21	210
10	Mapleton Coal Co., Foley.....	Mapleton.....	9	15	19	25	18	18	21	19	17	14	14	12	201
11	Olympia Coal Mining Co.....	Edwards.....	.....	.....	.....	17	19	18	19	14	9	.....	.....	.....	114
12	Lancaster Ldg. C. & F. Co.....	Kingston Mines.....	18	17	19	22	23	17	16	14	16	9	14	15	200
13	German Coal Co., No. 1.....	Mapleton.....	6	6	6	20	21	22	20	19	11	13	8	20	172
14	Young Coal Co., No. 1.....	Oak Hill.....	8	9	9	12	12	14	13	13	12	.....	.....	.....	102
	Average.....	.....	13	15	17	23	21	22	21	19	17	16	16	15	201



PUTNAM COUNTY—THIRD DISTRICT													
1	St. Paul Coal Co., No. 1.....	25	26	24	24	24	25	21	25	23	15	22	280
2	B. F. Berry Coal Co., No. 1.....	14	17	22	24	21	23	22	10	16	7	21	219
	Average.....	20	26	23	25	23	23	25	15	23	11	22	250
TAZEWELL COUNTY—THIRD DISTRICT													
1	Tazewell Coal Co.....	25	24	23	26	24	24	26	22	21	20	18	274
2	Groveland Coal Co., Phoenix.....					18	27	26	24	25	21	23	185
3	Eastern Coal Co.....	29	31	31	30	31	30	31	21	28	31	20	332
4	Urbien Coal Co., No. 1.....	15	21	24	25	26	24	23	23	26	16	16	256
5	Champion Coal Co., No. 1.....	9	18	26	26	26	24	25	24	27	8	10	230
	Average.....	20	24	26	27	25	26	24	24	26	17	19	255
WOODFORD COUNTY—THIRD DISTRICT													
1	Roanoke Coal Co.....	16	22	23	27	25	24	26	23	24	16	17	260
2	Minonk Coal Co., No. 2.....	11	14	19	22	21	13	21	21	18	10	10	190
	Average.....	14	18	21	2	23	17	24	22	21	13	14	225
	The district.....	16	18	20	23	21	22	21	19	19	15	17	210
FULTON COUNTY—FOURTH DISTRICT													
1	Big Creek Coal Co., No. 2.....	21	22	25	27	17	21	22	16	20	24	25	262
2	Maplewood Coal Co., No. 2.....	22	13	18	26	21	23	18	5	18	15	10	212
3	Marmouth Coal Mining Co., No. 1.....	10	16	18	26	23	23	21	19	17	12	11	206
4	Alden Coal Co., No. 6.....	13	16	20	25	20	19	16	14	14	10	10	189
5	Big Creek Coal Co., No. 4.....	24	23	27	25	25	21	25	21	20	22	13	213
6	Canton Coal Mining Co.....	15	19	22	27	25	25	25	21	19	17	20	248
7	Summons Coal Co.....	12	15	20	27	24	24	20	20	18	12	11	214
8	Eagle Mining Co.....	18	19	22	27	25	24	22	18	22	14	12	238
9	Norris Coal Mining Co., Norris.....	9	19	19	25	24	23	20	13	13	9	8	191
10	Silver Creek Coal Co., No. 1.....	23	24	23	26	23	24	20	16	13	8	10	218
11	Star Coal Co., No. 3.....	17	18	24	24	14	22	21	16	22	17	13	227
12	National Coal Mining Co.....	10	23	21	22	24	24	24	13	21	13	14	201
13	Big Creek Coal Co., No. 3.....			21	22	24	22	23	16	24	25	25	210
14	Star Coal Co., No. 1.....	16	14	12	8	20	21	19	13	16	5		144
15	Alden Coal Co., No. 1.....			27	27	22	24	16	14	14	5		122
16	Star Coal Co., No. 2.....			10	26	18	22	17	9		13	9	124
17	Spoon River Coal Co., No. 1.....		10	16	16	20	14	21	20	22	22	25	210
18	Star Coal Co., No. 1.....	18	23	22	21	19	21	21	20	19	18	17	238
19	Star Coal Co., No. 1.....										10	18	47
	Average.....	15	17	20	24	22	22	20	18	18	14	15	196
	The district.....	15	17	20	24	22	22	20	18	18	14	15	196

TABLE 31—Continued

Number	Name of operators	Postoffice address of mine	Days in operation												Total
			1912						1913						
			July	August	September	October	November	December	January	February	March	April	May	June	
CHRISTIAN COUNTY—FIFTH DISTRICT															
1	Christian County Coal Co.	Taylorville.	7	8	13	22	17	23	18	8	13	15	9	12	165
2	Springfield Coal Mining Co., No. 6.	do.	17	17	20	16	20	21	24	19	16	12	15	14	211
3	Stonington Coal Co.	Stonington.	14	12	15	19	17	21	18	17	15	18	10	10	186
4	Pennwell Coal Mining Co.	Pana.	9	13	9	15	15	15	21	15	11	10	7	7	137
5	Pana Coal Co., No. 1.	do.	9	16	12	23	21	21	17	12	12	5	6	5	159
6	Smith-Loehr Coal Mining Co.	do.	6	7	7	19	18	16	11	4	4	5	2	2	92
7	Illinois Midland Coal Co., No. 7.	Taylorville.	5	27	24	26	25	24	22	20	22	24	25	25	269
8	Assumption Coal & Mining Co.	Assumption.	21	21	13	21	17	20	26	23	16	21	13	15	227
9	Pana Coal Co., No. 2.	Pana.	.....	4	21	2	18	12	9	3	3	6	5	4	62
10	C. W. Vandever, G. W.	Edinburg.	.....	.....	.....	23	17	20	19	15	11	5	2	2	139
Average.			12	14	15	19	19	19	18	14	12	12	9	9	165
MACON COUNTY—FIFTH DISTRICT															
1	Manufacturers & Con. C. Co., M. C.	Decatur.	15	25	24	27	25	20	20	20	15	10	10	9	220
2	Decatur Coal Co., No. 2.	do.	11	18	15	18	16	19	17	16	15	14	11	10	180
3	Blue Mound Coal Co., No. 1.	Blue Mound.	13	12	10	17	13	13	13	14	16	.....	.....	.....	121
4	Decatur Coal Co.	Decatur.	4	15	18	26	21	11	9	12	8	2	2	.....	128
5	Decatur Coal Co., No. 1.	do.	.....	.....	4	22	19	22	23	16	14	.....	.....	.....	120
Average.			13	18	14	22	19	17	16	15	14	9	8	10	154
MOULTREE COUNTY—FIFTH DISTRICT															
1	Lovington Coal Mining Co., No. 1.	Lovington.	13	21	19	27	23	21	18	16	12	20	17	17	224
Average.			13	21	19	27	23	21	18	16	12	20	17	17	224
SHELBY COUNTY—FIFTH DISTRICT															
1	Tower Hill Coal Co., T. H.	Tower Hill.	8	15	18	19	21	21	18	17	17	17	8	12	191
2	Moweaqua Coal Mining & Mfg. Co., No. 1.	Moweaqua.	4	15	15	15	14	14	10	9	8	7	5	9	125
Average.			6	15	17	17	18	18	14	13	13	12	7	11	158

VERMILION COUNTY—FIFTH DISTRICT														
1	Bunsen Coal Co., Verm.	25	26	24	27	23	23	24	23	21	22	21	282	
2	Bunsen Coal Co., Kelly No. 4	25	26	21	27	23	23	26	24	18	20	21	277	
3	Bunsen Coal Co., No. 2	25	26	24	27	23	23	26	23	25	19	21	282	
4	Bunsen Coal Co., No. 3	25	26	22	24	23	23	25	24	23	19	20	274	
5	Dering Coal Co., No. 2	8	6	8	16	23	23	14	11	13	14	13	163	
6	Dering Coal Co., No. 4	7	7	8	18	22	22	16	12	12	16	14	165	
7	Dering Coal Co., No. 3	6	7	8	18	21	20	14	8	12	13	6	133	
8	Electric Coal Co., Electric	23	25	24	27	26	25	24	24	26	23	25	299	
9	Danville Collieries Co.	15	18	20	25	21	21	20	20	20	22	20	242	
10	Mission Mining Co.	21	24	26	25	26	26	25	23	23	25	21	239	
11	Missouri Coal Co.	10	14	12	13	12	12	26	24	25	24	23	183	
12	Tilton Coal Co., Comet	15	11	14	21	22	6	17	16	16	14	7	172	
13	Black Diamond Coal Co., No. 1	10	11	12	12	20	21	20	20	23	19	21	209	
14	Black Diamond Coal Co., No. 2	26	24	25	26	25	25	27	23	22	21	20	223	
15	Black Diamond Mining Co.	20	27	21	23	25	24	23	23	22	21	27	221	
16	Sharon Coal & Brick Co.	11	11	14	25	21	22	16	15	11	12	8	174	
17	Danville Consumers Coal Co.	11	11	14	8	19	20	18	14	17	16	21	148	
18	Gray Coal Co.	17	19	18	22	21	21	20	19	18	18	22	102	
Average.....		17	19	18	22	21	21	20	19	20	18	19	210	
The district.....														
LOGAN COUNTY—SIXTH DISTRICT														
1	Latham Mining Co., N	13	18	23	26	22	23	18	16	13	12	6	7	197
2	Lincoln Mining Co., No. 1	5	10	18	23	23	22	14	14	14	7	4	4	158
3	Citizens Coal Mining Co.	6	26	24	25	22	23	19	19	18	11	12	10	215
4	Mt. Pulaski Col. Co.	.....	.....	.....	.....	14	21	20	20	17	16	14	12	134
Average.....		8	18	22	25	20	22	18	17	16	12	9	8	176
M'LEAN COUNTY—SIXTH DISTRICT														
1	McLean County Coal Co.	23	23	25	27	25	25	26	24	26	21	19	18	282
2	Collax Cooperative Coal Co., No. 1	15	27	24	29	28	25	26	22	20	18	16	15	265
Average.....		19	25	25	28	27	25	26	23	23	20	18	17	274
SANGAMON COUNTY—SIXTH DISTRICT														
1	Chicago, Wilm. & Verm. Coal Co., No. 1	8	12	22	24	20	22	19	17	19	16	15	18	212
2	Illinois Midland Coal Co., No. 5	23	24	21	16	17	17	24	19	24	23	23	22	253
3	Madison Coal Corporation, No. 6	9	13	16	13	21	21	19	9	13	11	1	9	153
4	Jones & Adams Coal Co., Peerless	10	17	18	21	19	17	15	14	12	16	12	14	185
5	Springfield Coal Mining Co., No. 2	16	16	19	22	18	19	21	18	16	11	7	11	194
6	Black Diamond Coal Co.	17	16	16	16	16	16	21	26	19	18	22	14	216
7	Woodside Coal Co.	16	15	21	26	25	25	26	24	23	19	12	12	244
8	Illinois Midland Coal Co., No. 6	5	11	13	19	19	19	19	13	13	12	9	7	159
9	Springfield Coal Mining Co., No. 5	5	13	23	26	25	24	26	20	16	13	8	8	204
10	Chicago and Springfield Coal Co.	5	13	16	20	22	20	18	8	11	12	7	9	161
11	Sangamon Coal Co.	11	15	21	22	23	21	19	15	16	15	7	7	192

TABLE 31—Continued

Number	Name of operator	Postoffice address of mine	Days in operation												Total	
			1912						1913							
			July	August	September	October	November	December	January	February	March	April	May	June		
12	Capitol Coal Co., No. 2.....	Springfield.....	.....	.....	2	18	17	17	17	16	15	14	14	13	143	
13	Cora Coal Co.....	do.....	11	16	14	17	15	18	16	11	18	9	13	14	172	
14	West End Coal Co., W. S.....	do.....	10	11	17	18	19	17	17	16	12	11	10	11	169	
15	Dickerson Coal Co., Empire.....	do.....	16	27	24	26	24	24	17	20	16	15	12	7	228	
16	Tuxhorn Coal Co.....	do.....	15	15	7	21	15	17	20	11	10	19	14	6	170	
17	Auburn & Alton Coal Co.....	Auburn.....	10	9	13	17	21	22	21	17	13	14	9	10	176	
18	Lefton Coal Co.....	do.....	8	8	11	19	20	20	22	10	12	14	8	5	160	
19	Centrall Co-operative Coal Co., Republic.....	Springfield.....	16	23	18	24	22	22	18	19	19	19	15	5	220	
20	Williamsville Coal Co.....	Selbytown.....	8	10	12	19	17	21	12	14	14	14	13	14	168	
21	Springfield Co-operative Coal Co.....	Springfield.....	10	9	10	20	21	23	22	16	14	10	6	7	168	
22	Barclay Coal Co.....	Barclay.....	10	11	17	14	17	13	18	17	13	12	8	.....	152	
23	Spring Creek Coal Co.....	Springfield.....	9	16	19	21	20	20	18	15	14	15	14	10	191	
24	Centrall Co-operative Coal Co.....	do.....	13	13	18	21	17	20	13	16	20	10	2	.....	168	
25	Citizens Coal Mining Co., B.....	do.....	11	19	20	19	20	18	13	16	20	14	16	12	159	
26	T. J. O'Gara Coal Co., Jefferson.....	do.....	13	.....	.....	6	14	15	15	14	13	16	.....	.....	106	
27	Citizens Coal Mining Co., A.....	Dawson.....	10	21	18	16	19	19	18	9	.....	6	10	5	130	
28	Wabash Coal Co., No. 1.....	Spaulding.....	6	15	4	23	20	8	13	11	9	.....	.....	.....	140	
29	Spaulding Coal Co.....	.....	.....	.....	.....	.....	6	12	15	14	.....	.....	.....	.....	47	
Average.....			11	15	15	20	19	19	18	15	15	14	10	10	174	
The district.....			12	16	16	21	19	20	19	16	16	15	10	10	180	
MACOUTIN COUNTY—SEVENTH DISTRICT																
1	Superior Coal Co., No. 3.....	Gillespie.....	21	19	17	23	19	21	21	20	13	15	17	26	5	216
2	Superior Coal Co., No. 2.....	do.....	18	20	19	22	21	19	22	14	14	20	3	23	23	215
3	Superior Coal Co., No. 1.....	do.....	19	19	18	23	20	19	20	15	16	1	20	22	21	212
4	Consolidated C. Co., No. 14.....	Stanton.....	17	20	18	21	21	19	19	16	14	17	18	17	21	217
5	Consolidated Coal Co., No. 14.....	Mt. Olive.....	2	16	18	23	20	19	14	11	16	16	7	15	17	177
6	Royal Colliery Co., No. 1.....	Virdeon.....	15	16	19	25	24	23	24	17	14	19	9	.....	205	
7	Girard Collieries Co., No. 5.....	Girard.....	13	12	16	24	23	23	23	18	19	18	14	18	221	
8	Madison Coal Corporation, No. 5.....	Mt. Olive.....	14	13	14	19	22	22	16	14	16	17	18	17	202	
9	Glenridge Coal Co., No. 1.....	Virdeon.....	12	10	14	25	22	17	19	19	18	16	4	.....	176	
10	Vivian Collieries Co.....	Greenridge.....	12	12	14	15	16	19	20	14	13	15	14	10	174	

[illegible]

TABLE 31—Continued

Number	Name of operators	Postoffice address of mine	Days in operation												Total
			1912						1913						
			July	August	September	October	November	December	January	February	March	April	May	June	
14	City Coal Co. of Edwardsville, No. 3.....	Edwardsville.....	10	16	20	23	22	20	18	19	22	16	10	5	201
15	Edwardsville Home Trade Coal Co.....	do.....	19	23	19	19	25	21	16	18	16	13	10	12	218
16	Brookside Coal Co.....	Troy.....	20	25	25	25	25	25	.....	.....	.....	.....	.....	.....	120
	Total average.....		15	19	18	21	20	18	16	14	16	13	11	10	169
MARION COUNTY—EIGHTH DISTRICT															
1	Marion County Coal Co.....	Centralia.....	18	15	20	19	19	22	22	15	15	17	14	7	203
2	Chicago and Sandoval Coal Co., No. 2.....	Sandoval.....	23	17	15	15	12	14	19	22	18	21	12	20	208
3	Odin Coal Co.....	Odin.....	19	23	21	24	24	25	23	22	19	17	14	15	246
4	Centralia Coal Co., No. 2.....	Centralia.....	23	22	19	23	22	24	12	5	4	2	.....	.....	156
5	Centralia Coal Co., No. 4.....	do.....	23	22	18	22	19	23	17	1	1	1	.....	.....	147
6	Chicago and Sandoval Coal Co., No. 1.....	Sandoval.....	20	15	16	15	13	16	22	21	25	22	25	13	223
	Average.....		21	19	18	20	18	21	19	14	14	13	16	14	197
	The district.....		16	18	18	21	19	18	17	15	15	12	11	12	176
ST. CLAIR COUNTY—NINTH DISTRICT															
1	St. Louis and O'Fallon Coal Co., No. 2.....	East St. Louis.....	20	24	14	18	15	17	11	20	21	25	23	25	233
2	Consolidated Coal Co., No. 17.....	Collinsville.....	18	21	21	21	18	21	17	22	16	18	19	21	233
3	Prairie Coal Co.....	Belleville.....	13	23	23	25	25	25	25	25	25	13	13	13	248
4	Southern Coal, Coke & Mining Co., No. 8.....	do.....	13	24	12	23	24	22	23	17	18	16	16	7	215
5	Southern Coal, Coke & Mining Co., No. 7.....	do.....	18	16	16	18	18	22	22	19	17	10	16	10	202
6	Jos. Taylor Coal Co., St. Ellen.....	O'Fallon.....	9	8	13	26	19	18	12	11	10	7	4	6	143
7	St. Louis and O'Fallon Coal Co., No. 1.....	East St. Louis.....	.....	4	14	17	17	17	11	.....	18	13	10	8	80
8	Superior Coal Co.....	Belleville.....	3	16	18	26	24	18	16	19	18	10	10	8	189
9	Kolb Coal Co., No. 2.....	Mascoutah.....	12	14	17	17	16	18	19	21	20	14	15	13	196
10	Suburban Coal & Mining Co.....	Belleville.....	11	.....	.....	26	25	24	21	22	22	16	11	9	187
11	Kolb Coal Co., No. 1.....	Mascoutah.....	31	31	30	31	31	31	31	28	31	30	31	30	365
12	Kolb Coal Co., Fair Bank.....	Lenzburg.....	12	11	12	15	14	13	16	14	15	12	12	10	156
13	Bresse-Trenton Mining Co.....	Trenton.....	18	11	17	18	20	13	9	12	5	12	5	.....	123
14	Mulberry Hill Coal Co., No. 1.....	Freeburg.....	7	14	8	10	8	11	9	8	8	14	11	12	120
15	Star Coal Co.....	do.....	15	14	15	9	8	9	11	10	22	25	18	19	175
16	Jos. Taylor Coal Co., T Mine.....	O'Fallon.....	9	9	9	16	15	14	7	9	8	6	6	5	104



[illegible]

TABLE 31—Continued

Number	Name of operators	Postoffice address of mine	Days in operation												Total	
			1912						1913							
			July	August	September	October	November	December	January	February	March	April	May	June		
1	JEFFERSON COUNTY—TENTH DISTRICT															
1	Mt. Vernon Coal Co.	Mt. Vernon.....	24	24	23	25	24	24	24	24	22	24	24	20	22	280
	Average.....		24	24	23	25	24	24	24	24	22	24	24	20	22	280
	PERRY COUNTY—TENTH DISTRICT															
1	Security Coal Mining Co., No. 1.....	Duquoin.....	17	23	20	12	9	19	19	16	15	17	10	12	189	
2	Willis Coal Mining Co., No. 1.....	Willisville.....	18	18	15	19	23	18	20	20	19	11	19	19	219	
3	Paradise Coal Co.....	Duquoin.....	14	17	14	13	15	15	15	11	11	8	10	11	154	
4	Maestic Coal & Coke Co.....	Duquoin.....	6	6	7	9	10	14	13	8	14	12	9	12	114	
5	Ritchey Coal Co., No. 1.....	Pineckneyville.....	24	24	19	25	23	24	22	22	25	21	22	21	272	
6	Duquoin Operating Co., Queen.....	Duquoin.....	20	11	15	11	10	13	13	8	.....	.....	.....	.....	101	
7	Mo. and Ill. Coal Co., No. 4.....	Willisville.....	12	15	13	13	19	17	18	11	19	7	19	16	179	
8	St. Louis and Coniterville Coal Co., Vulcan.....	Coniterville.....	3	13	10	10	14	9	11	10	9	8	26	25	138	
9	Bald Eagle Mining Co., B. E.....	Craig.....	12	12	10	7	7	8	11	10	9	4	.....	.....	90	
10	Wilson Coal Co.....	Cutler.....	7	12	15	18	18	16	15	14	15	15	6	4	155	
11	King City Coal & Mining Co.....	do.....	.....	.....	.....	11	14	9	6	10	4	6	10	20	90	
12	Little Muddy Fuel Co.....	Tamaroa.....	.....	.....	.....	9	10	9	2	3	.....	.....	.....	.....	33	
13	Bailey Bro's Coal Co., Diamond.....	Sunfield.....	12	18	15	14	12	9	14	11	10	10	11	12	148	
14	Brilliant Coal & Coke Co., Horn Mine.....	Duquoin.....	.....	.....	.....	13	16	18	.....	.....	.....	.....	.....	.....	47	
15	Greenwood-Davis Coal Co., No. 2.....	do.....	.....	.....	.....	17	22	25	22	21	25	22	22	10	169	
16	Bailey Bro's Coal Co., Sun.....	Sunfield.....	14	21	14	17	22	9	21	19	17	22	15	15	216	
17	Strait Coal Co.....	Pineckneyville.....	16	24	24	24	24	24	16	16	16	16	16	.....	200	
18	Dynamic Coal Mining Co., No. 3.....	Duquoin.....	.....	.....	.....	.....	.....	24	24	.....	.....	.....	.....	.....	48	
	Average.....		15	16	15	14	16	16	16	13	13	13	15	15	142	
	RANDOLPH COUNTY—TENTH DISTRICT.															
1	Willis Coal Mining Co., No. 6.....	Percy.....	17	18	15	18	19	21	21	23	20	11	16	21	220	
2	Jones Bro's Coal & Mining Co., No. 2.....	Marissa.....	11	16	10	9	9	10	9	10	12	13	7	14	130	
3	Wilson Bro's Coal Co., No. 7.....	Sparta.....	12	14	14	10	5	7	13	12	12	11	15	.....	125	
4	Illinois Fuel Co., No. 4.....	do.....	11	14	12	9	12	18	7	8	9	3	.....	.....	103	
5	Moffatt Coal Co., No. 1.....	do.....	20	18	16	13	14	18	10	13	11	3	.....	.....	136	
6	Bessemer Coal Mining Co., Crystal.....	Tilden.....	.....	.....	.....	3	12	12	4	5	1	1	22	19	79	



7	Bessemer Coal Mining Co., Tilden	20	25	17	22	18	9	3	11	10	17	19	20	114
8	Underwood Coal Mining Co., W. Mine				6	9	12	10	11	10	17	19	20	114
9	Randolph County Coal Co.				13	16	10	8	10	4				61
10	Boyd Coal & Coke Co., No. 1						21	20	4					45
	Average.....	15	17	14	11	13	14	11	11	10	8	16	16	113
WASHINGTON COUNTY—TENTH DISTRICT.														
1	Centralia Coal Co., No. 5	10	9	6	17	18	24	9	1	1	5	16	14	130
2	Nicholson Coal Co.	24	25	24	24	23	23	16	18	16	17	12	10	233
3	Kuhn Coal Co.				20	23	6	5	6					60
	Average.....	17	17	15	20	21	17	10	8	8	11	14	12	141
	The District.....	15	17	16	15	16	16	14	13	13	12	15	16	145
FRANKLIN COUNTY—ELEVENTH DISTRICT.														
1	Ohio Valley Mining Co., No. 8	14	24	22	24	22	23	21	21	19	14	12	15	231
2	Zeigler Dist. Coal Co., N. Mine	23	27	24	27	25	24	26	18	16	18	15	13	256
3	Bell and Zoller Mining Co., No. 1	19	23	27	19	25	22	24	15	23	15	12	15	247
4	United Coal Mining Co., No. 1	19	23	21	26	24	22	21	21	15	13	14	14	234
5	Sesser Coal Co.	14	25	19	19	24	22	19	16	17	12	19	19	225
6	Benton Coal Co.	16	21	18	19	21	21	15	13	15	16	17	15	207
7	Hart-Williams Coal Co., No. 1	12	18	15	15	15	22	19	11	9	11	12	13	173
8	Franklin Coal & Coke Co.	15	23	17	17	18	17	17	14	20	11	1	20	190
9	United Coal Mining Co., No. 2		20	23	27	22	23	23	18	11	18	19	13	217
10	W. P. Rend Coal Co., No. 1	20	22	21	26	21	23	24	15	14	16	14	14	230
11	Southern Illinois Coal & Coke Co., Possum Ridge	22	24	23	24	20	23	23	23	20	22	22	22	267
12	Dering Coal Co., No. 11	10	14	14	14	16	17	13	12	12	12	10	16	160
13	Carroll & Franklin Co's Coal Co., No. 1	17	20	17	16	18	20	13	14	12	13	14	15	189
14	Dering Coal Co., No. 18	10	17	14	14	17	19	13	14	13	13	10	13	167
15	West Frankfort Coal Co., No. 1			8	25	23	24	22	12	6	11	23	168	
16	Christopher Coal Mining Co., No. 1						25	26	23	26	26	26	25	177
	Average.....	16	22	19	21	21	22	20	16	16	16	14	16	209
GALLATIN COUNTY—ELEVENTH DISTRICT.														
1	Hickory Hill Coal Co., Dempsey	12	17	17	15	18	15	24	23	21	17	18	15	212
2	Gallatin Coal & Coke Co., No. 1	7	4	10	16	21	21	8	7	9				103
3	Crescent Coal Co., E. S. Mine		7	12	20	20	13	7	4					83
	Average.....	10	9	13	17	20	16	13	11	15	17	18	15	133
SALINE COUNTY—ELEVENTH DISTRICT														
1	Saline County Coal Co., No. 2	17	24	22	27	24	23	26	24	24	15	25	25	276
2	O'Gara Coal Co., No. 9	20	25	10	20	20	21	21	16	14	11	21	23	222
3	Saline County Coal Co., No. 3	26	27	24	27	22	26	26	24	22	14	26	22	284
4	Wasson Coal Co., No. 1	16	22	23	26	22	23	23	19	23	20	19	20	255
5	O'Gara Coal Co., No. 3	20	10	12	21	18	20	19	13	20	10	21	22	206
6	O'Gara Coal Co., No. 10	22	23	21	23	20	21	20	16	13	17	19	10	225
	Average.....	22	23	21	23	20	21	20	16	13	17	19	10	225

TABLE 31—Concluded

Number	Name of operators	Postoffice address of mine	Days in operation												Total
			1912						1913						
			July	August	September	October	November	December	January	February	March	April	May	June	
7	O'Gara Coal Co., No. 14.....	Ledford.....	14	22	26	20	20	21	21	14	16	8	23	19	204
8	Eldorado Coal Mining Co., No. 1.....	Eldorado.....	19	23	22	26	25	25	25	18	20	16	18	16	253
9	O'Gara Coal Co., No. 4.....	Harrisburg.....	.....	.....	20	25	20	20	20	19	20	20	7	.....	158
10	O'Gara Coal Co., No. 15.....	Carriers Mills.....	11	11	20	25	20	22	20	17	17	6	20	22	200
11	O'Gara Coal Co., No. 1.....	Harrisburg.....	21	26	18	25	18	20	19	13	19	10	21	22	232
12	Big Creek Col. Co., No. 1.....	Eldorado.....	23	26	20	25	22	24	23	8	.....	.....	.....	.....	171
13	O'Gara Coal Co., No. 12.....	Harrisburg.....	18	26	20	23	18	20	19	22	18	9	19	20	232
14	O'Gara Coal Co., No. 8.....	Eldorado.....	.....	6	22	20	20	22	20	17	17	11	19	18	172
15	O'Gara Coal Co., No. 7.....	Carriers Mills.....	8	16	20	26	20	22	19	16	3	.....	.....	.....	152
16	O'Gara Coal Co., No. 11.....	Eldorado.....	17	24	21	22	20	17	2	.....	.....	.....	.....	.....	123
17	Galatia & Saline Coal Co., No. 1.....	Galatia.....	20	20	23	22	22	12	.....	.....	14	16	20	23	150
	Average.....	.....	19	21	19	24	21	21	20	17	17	11	20	20	207
WHITE COUNTY—ELEVENTH DISTRICT															
1	Norris City Coal Co., No. 1.....	Norris City.....	8	9	17	23	20	18	10	13	4	.....	.....	4	126
	Average.....	.....	8	9	17	23	20	18	10	13	4	.....	.....	4	126
The District.....															
WILLIAMSON COUNTY—TWELFTH DISTRICT															
1	Madison Coal Corp., No. 9.....	Dewmaine.....	10	14	14	21	21	22	19	19	22	17	21	17	217
2	Peabody Coal Co., No. 3.....	Marion.....	14	15	19	21	23	23	23	19	22	22	23	17	241
3	Big Muddy Coal & Iron Co., No. 8.....	Clifford.....	19	22	22	22	19	18	11	13	15	18	15	.....	194
4	Johnson City Coal Co., No. 1.....	Johnston City.....	15	20	21	24	18	20	18	8	26	24	24	22	240
5	W. P. Rend Coal & Coke Co., No. 2.....	Herrin.....	19	22	22	21	21	20	23	14	7	17	13	13	212
6	Chicago and Cartersville Coal Co., A.....	do.....	12	20	21	24	20	20	12	11	11	7	9	8	175
7	Sunnyside Coal Co., No. 1.....	do.....	20	20	20	20	20	20	20	13	20	12	8	8	201
8	Madison Coal Corp., No. 8.....	Dewmaine.....	12	11	14	23	22	22	23	18	23	23	21	19	231
9	Western Coal Mining Co., No. 1, Bush.....	Bush.....	23	20	23	22	15	22	25	21	19	24	19	10	243
10	Southern Ill. Coal & Coke Co., Oak Ridge.....	Herrin.....	22	22	21	22	22	22	22	18	20	22	22	20	255
11	Cartersville Coal Co., Burr C.....	Cartersville.....	22	22	16	10	10	14	16	13	14	13	16	10	170
12	Big Muddy Coal & Iron Co., No. 7.....	Herrin.....	16	22	15	21	21	22	19	4	.....	.....	.....	14	116

13	West Va. Coal Co., No. 1.....	19	24	19	21	14	20	18	13	16	20	17	9	210
14	Taylor Coal Co., No. 2.....	12	14	13	12	14	14	15	16	14	15	15	14	168
15	Cartersville & Herrin Coal Co., No. 1.....	20	22	19	21	18	19	20	15	17	22	14	14	221
16	Big Muddy Fuel Co., W. Va.....	16	19	16	13	18	19	23	16	16	18	14	17	205
17	Ill. Hoeking Washed Coal Co.....	10	22	11	26	24	23	24	20	14	19	3	.....	196
18	Standard Coal Co., McIntock.....	16	20	17	15	16	21	17	10	12	15	14	11	184
19	Peabody Coal Co., No. 2.....	24	24	20	19	23	23	26	12	5	.....	.....	.....	176
20	Haler Washed Coal Co., No. 3.....	11	15	40	15	14	15	12	7	9	8	8	12	136
21	Chicago & Big M. Coal & Coke Co., No. 1.....	9	11	16	26	25	17	10	8	5	13	8	9	157
22	Taylor Coal Co., No. 1.....	12	11	13	11	12	13	14	11	10	13	12	10	142
23	St. Louis and Cartersville Coal Co., Dale.....	16	22	20	21	22	20	20	14	14	15	11	.....	195
24	Williamson County Coal Co., Old Mine.....	10	22	13	12	16	16	18	13	11	9	7	9	156
25	Pond Creek Coal Co., Franklin.....	8	19	21	24	20	20	14	10	9	11	5	10	171
26	Seranton Big M. Coal Mining Co., No. 1.....	14	15	12	17	15	18	16	8	9	20	23	12	179
27	Chicago and Cartersville Coal Co., B.....	.....	1	.....	23	20	22	21	14	1	.....	.....	.....	81
28	Cartersville & Big Muddy Coal Co., John.....	.....	.....	.....	10	17	25	21	23	23	.....	.....	.....	119
29	Donaly-Koenigska Coal Co.....	.....	13	12	14	14	15	13	8	8	10	10	13	130
30	Southern Illinois Coal & Coke Co., Walnut Ridge.....	.....	3	16	20	20	20	21	18	1	.....	.....	.....	119
31	Watson Coal Co., No. 2.....	15	24	15	16	19	22	20	12	15	.....	8	14	180
32	Pittsburg Big Muddy Coal Co., No. 2.....	15	21	12	11	9	12	7	.....	.....	.....	.....	.....	87
33	Consolidated Coal Co.....	.....	.....	.....	.....	.....	20	22	19	20	.....	15	10	107
34	Buckley and Miles.....	16	16	16	16	17	17	17	17	17	17	17	17	200
35	J. S. McNeil.....	20	20	21	21	21	21	21	21	21	21	21	21	250
	Average.....	15	18	17	19	18	19	15	14	15	16	15	13	179
	The District.....	15	18	17	19	18	19	15	14	15	16	15	13	179

Table 32 shows the average number of days the shipping mines were in operation in each district.

TABLE 32—RECAPITULATION OF DAYS IN OPERATION, SHIPPING MINES, BY DISTRICTS

Districts	Num-ber of mines	Days of operation—												Aver-age
		1912						1913						
		July	Au-gust	Sep-tember	Octo-ber	No-vember	Decem-ber	Janu-ary	Febru-ary	March	April	May	June	
First.....	21	13	16	17	23	22	21	21	18	19	18	15	15	210
Second.....	14	18	18	18	22	21	22	20	18	18	14	13	14	198
Third.....	33	16	18	20	23	21	22	21	19	19	15	15	17	210
Fourth.....	19	15	17	20	24	22	22	20	18	18	14	15	15	196
Fifth.....	36	14	17	17	21	20	20	19	16	16	15	14	14	187
Sixth.....	35	12	16	16	21	19	20	19	16	16	15	10	10	180
Seventh.....	22	15	16	16	20	20	20	19	15	14	14	12	15	185
Eighth.....	29	16	18	18	21	19	18	17	15	15	12	11	12	176
Ninth.....	50	12	13	13	17	17	17	16	14	15	16	14	16	142
Tenth.....	40	15	17	16	15	16	16	14	13	13	12	15	16	145
Eleventh.....	37	17	20	18	22	21	21	19	16	16	14	17	18	199
Twelfth.....	35	15	18	17	19	18	19	15	14	15	16	15	13	179
The State.....	371	15	17	18	20	19	19	18	16	16	15	14	15	179

Table 33 shows the number of mines, men and average days worked by districts, and is for all mines, shipping mines and local mines.

TABLE 33—DAYS OF ACTIVE OPERATION, BY DISTRICTS

Districts	All mines			Shipping mines			Local mines		
	Mines	Men	Days	Mines	Men	Days	Mines	Men	Days
First.....	51	4,857	207	21	4,395	210	30	462	205
Second.....	99	4,704	155	14	4,230	198	85	474	148
Third.....	94	5,165	167	23	4,820	210	61	345	144
Fourth.....	191	2,742	166	19	3,235	196	172	507	163
Fifth.....	67	7,096	188	36	6,827	187	31	269	190
Sixth.....	40	7,862	179	35	7,739	180	5	123	172
Seventh.....	27	7,644	177	22	7,614	185	5	30	144
Eighth.....	40	7,621	184	29	7,531	176	11	90	206
Ninth.....	65	5,707	160	50	5,572	142	15	135	224
Tenth.....	65	4,918	156	40	4,826	145	25	92	174
Eleventh.....	53	10,974	177	37	10,913	199	16	61	125
Twelfth.....	48	9,207	162	35	9,153	179	13	54	115
The State.....	840	79,497	170	371	76,855	179	469	2,642	163

Table 34 gives, for fourteen years, the record of the number of mines, men and days worked.

TABLE 34—DAYS OF ACTIVE OPERATION, FOR A SERIES OF FOURTEEN YEARS

Years	Mines, men and average days worked								
	All mines			Shipping mines			Local mines		
	Mines	Men	Days	Mines	Men	Days	Mines	Men	Days
1900.....	920	39,384	182.6	323	36,298	214.0	597	3,084	166.4
1901.....	915	44,143	174.3	331	40,940	204.4	584	3,217	157.0
1902.....	915	46,005	179.5	332	42,807	210.2	583	3,198	161.9
1903.....	933	49,814	192.1	353	46,494	221.8	580	3,320	170.7
1904.....	932	51,774	197.9	380	51,384	213.3	552	3,399	184.9
1905.....	990	59,230	173.7	397	55,713	198.5	593	3,487	158.0
1906.....	1,018	62,283	172.0	419	58,851	189.6	559	3,432	160.3
1907.....	933	66,714	184.1	411	63,154	209.3	522	3,500	164.2
1908.....	922	70,841	171.4	407	67,470	190.6	515	3,371	161.0
1909.....	886	72,733	168.4	384	69,518	188.6	502	3,215	154.8
1910.....	831	74,634	170.6	390	71,520	179.1	491	3,114	164.5
1911.....	845	77,410	165.4	387	74,508	169.2	458	2,902	162.2
1912.....	879	79,411	160.0	380	76,407	172.0	499	3,004	152.0
1913.....	840	79,497	170.0	371	76,855	179.0	469	2,642	163.0

## CLASSIFICATION OF EMPLOYEES

Table 35 is a classification of employees of the shipping mines, by districts.

TABLE 35—CLASSIFICATION OF EMPLOYEES IN SHIPPING MINES, BY DISTRICTS, ALSO THE EMPLOYEES OF LOCAL MINES

Districts	All employees underground			Employees above ground			Grand total
	Miners	Other employees	Boys	Total	Boys	Other employees	Total
First.....	3,109	828	71	4,008	4	383	387
Second.....	3,076	781	57	3,914	.....	316	316
Third.....	3,280	1,013	98	4,391	6	423	4,230
Fourth.....	2,077	863	41	2,981	1	253	4,229
Fifth.....	3,433	2,704	125	6,262	4	561	3,235
Sixth.....	4,935	2,013	154	7,102	6	631	5,655
Seventh.....	1,905	4,863	159	7,017	6	590	637
Eighth.....	2,239	4,480	185	6,904	7	621	7,739
Ninth.....	2,178	2,869	66	5,113	6	452	7,614
Tenth.....	1,879	2,391	101	4,371	7	434	627
Eleventh.....	1,831	9,030	139	10,000	21	900	4,572
Twelfth.....	4,237	3,742	214	8,243	13	907	455
Total.....	33,319	35,577	1,410	70,306	78	6,471	76,855
Local mines.....	2,082	85	20	2,187	4	451	2,642
The State.....	35,401	35,662	1,430	72,493	82	6,922	79,497

Table 36 is a classification of employees for fifteen years.

TABLE 36—CLASSIFICATION OF EMPLOYEES IN ALL MINES FOR FIFTEEN YEARS

Year	All employees under ground				All employees above ground			Grand total
	Miners	Other employees	Boys	Total	Boys	Others	Total	
1899.....	26,449	5,455	1,295	33,199	.....	3,792	3,792	36,991
1900.....	27,875	6,047	1,281	35,203	.....	4,181	4,181	39,384
1901.....	30,829	7,595	1,326	39,750	.....	4,393	4,393	44,143
1902.....	32,875	7,273	1,397	41,518	.....	4,487	4,487	46,005
1903.....	34,904	8,526	1,276	44,703	.....	5,111	5,111	49,814
1904.....	37,987	9,812	1,562	49,361	.....	5,413	5,413	54,774
1905.....	41,202	10,894	1,540	53,436	.....	5,794	5,794	59,230
1906.....	42,920	11,065	1,499	56,024	.....	6,259	6,259	62,283
1907.....	45,498	13,026	1,595	60,119	.....	6,396	6,396	66,714
1908.....	48,931	13,929	1,564	64,424	.....	6,417	6,417	70,841
1909.....	50,834	13,788	1,752	66,374	.....	6,288	6,359	72,733
1910.....	39,069	28,137	1,154	68,360	47	6,227	6,274	74,634
1911.....	39,912	30,052	1,009	70,973	71	6,366	6,437	77,410
1912.....	39,149	31,987	1,526	72,662	75	6,974	7,049	79,411
1913.....	35,401	35,662	1,430	72,493	82	6,922	7,004	79,497



Table 37 shows a classification of employees of the shipping mines by occupations, giving the names of the operators, the location of the mines, the number employed in each occupation, the number of days the mines were in operation and the number of tons produced.

TABLE 37.—CLASSIFICATION OF EMPLOYEES, AND THE TOTAL NUMBER OF MEN EMPLOYED IN SHIPPING MINES, WITH THE NUMBER OF DAYS EACH MINE WAS IN OPERATION DURING THE YEAR, AND THE TOTAL TONS PRODUCED—1913

No.	Name of operator	Postoffice address or location of mine	Number of employees in each occupation										Total classified	Number not classified	Total number of employees	Number of days in operation	Total tons produced			
			Number of employees in each occupation																	
			Cagers	Drivers	Laborers	Loaders	Machine-men	Miners	Shot-firers	Timber-men	Track-men	Trappers								
GRUNDY COUNTY—FIRST DISTRICT																				
1	Chicago, Wilm. & Verm. Coal Co., No. 1	South Wilmington.	2	21	18	.....	.....	.....	.....	.....	234	.....	3	20	.....	298	11	309	165	129, 125
2	Chicago, Wilm. & Verm. Coal Co., No. 3	do.	2	16	11	.....	.....	.....	.....	.....	222	.....	3	15	2	271	9	280	163	123, 622
3	Big Four Wilm. Coal Co.	Coal City	1	10	9	.....	.....	.....	.....	.....	154	.....	4	2	1	181	23	204	128	70, 817
4	Wilm. Star Mining Co., No. 7	do.	2	12	6	.....	.....	.....	.....	.....	127	.....	1	2	.....	150	12	162	151	50, 670
5	Wilm. Star Mining Co., No. 6	do.	2	11	6	.....	.....	.....	.....	.....	111	.....	1	1	.....	132	9	141	117	37, 730
Total.			9	70	50	.....	.....	.....	.....	.....	848	.....	12	40	3	1, 032	64	1, 096	145	411, 964
LASALLE COUNTY—FIRST DISTRICT																				
1	LaSalle County Carbon Coal Co., No. 5	LaSalle.	4	18	.....	.....	.....	.....	.....	.....	272	.....	3	3	6	306	73	379	219	208, 449
2	Oglesby Coal Co.	Oglesby	5	35	30	.....	.....	.....	.....	.....	286	.....	2	4	1	363	63	426	241	204, 222
3	LaSalle County Carbon Coal Co., No. 1	LaSalle.	2	26	.....	.....	.....	.....	.....	.....	243	.....	2	3	5	281	64	345	225	170, 736
4	LaSalle County Carbon Coal Co., No. 1	do.	3	28	.....	.....	.....	.....	.....	.....	248	.....	3	2	.....	283	80	363	224	133, 745
5	Chicago, Wilm. & Verm. Coal Co., No. 2	Streator.	4	16	20	.....	.....	.....	.....	.....	200	.....	5	2	2	249	20	269	215	142, 037
6	Chicago, Wilm. & Verm. Coal Co., No. 3	do.	4	11	10	.....	.....	.....	.....	.....	125	.....	6	1	4	161	18	179	274	132, 199
7	LaSalle County Carbon Coal Co., Union.	LaSalle.	2	11	.....	.....	.....	.....	.....	.....	142	.....	3	1	159	36	195	185	79, 891	
8	Harrison Coal Co.	Streator.	2	6	10	3	.....	.....	.....	.....	128	.....	2	2	2	155	33	188	237	77, 028
9	Acme Coal Co.	do.	5	5	10	.....	.....	.....	.....	.....	75	.....	1	2	1	99	14	113	185	65, 839
10	Illinois Zinc Co.	Peru.	.....	17	17	.....	.....	.....	.....	.....	89	.....	4	1	4	132	17	149	293	60, 038
11	Cahill Coal Co., No. 1	do.	2	6	24	37	.....	.....	.....	.....	74	.....	6	.....	.....	149	.....	149	241	42, 820
12	Rutland Coal Co.	Rutland.	1	8	4	.....	.....	.....	.....	.....	70	.....	.....	1	1	85	15	100	180	34, 548
13	G. J. Coal Co., No. 1	Seneca.	1	1	2	1	1	29	.....	.....	1	.....	1	1	.....	37	3	40	286	11, 373
Total.			35	188	127	41	1	1, 981	.....	.....	26	32	28	2, 459	436	2, 895	231	1, 382, 945		
LIVINGSTON COUNTY—FIRST DISTRICT																				
1	Fairbury Coal Co., W. Mine.	Fairbury.	1	3	10	20	.....	.....	.....	.....	20	.....	2	2	1	59	4	63	299	28, 875
Total.			1	3	10	20	.....	.....	.....	.....	20	.....	2	2	1	59	4	63	299	28, 875





TABLE 37—Continued

No.	Name of operator	Postoffice address or location of mine	Number of employees in each occupation										Total classified	Number not classified	Total employees	Number of days in operation	Total tons produced		
			Cagers	Drivers	Laborers	Loaders	Machine-men	Miners	Shot-firers	Timber-men	Track-men	Trappers							
TAEZEVELL COUNTY—THIRD DISTRICT																			
1	Tazewell Coal Co.	Pekin.....	2	15	14	113	20	.....	.....	.....	.....	2	3	1	170	10	180	274	148, 294
2	Groveland Coal Co.	Peoria.....	4	5	2	43	6	.....	.....	.....	.....	2	4	.....	86	.....	86	185	54, 383
3	Eastland Coal Co.	East Peoria.....	1	4	5	.....	.....	40	2	2	.....	2	1	.....	5	.....	5	337	31, 337
4	Ubben Coal Co., No. 1.....	Pekin.....	1	3	3	.....	.....	40	2	2	.....	1	1	.....	52	3	55	256	29, 672
5	Champion Coal Co., No. 1.....	do.....	1	1	.....	.....	.....	20	2	2	.....	.....	.....	.....	24	4	28	230	7, 096
Total.....																			
			9	28	24	156	26	117	8	.....	.....	8	9	2	387	22	409	255	270, 783
WOODFORD COUNTY—THIRD DISTRICT																			
1	Roanoke Coal Co.	Roanoke.....	2	17	24	.....	.....	.....	.....	.....	.....	2	2	4	216	7	223	260	120, 868
2	Minonk Coal Co., No. 2.....	Minonk.....	2	14	.....	.....	.....	.....	.....	.....	.....	2	2	3	141	15	156	190	58, 627
Total.....																			
			4	31	24	.....	.....	.....	.....	.....	.....	4	4	7	357	22	379	225	179, 495
The district.....																			
			42	307	280	172	46	3, 280	48	.....	.....	66	68	62	4, 351	469	4, 820	210	2, 952, 056
FULTON COUNTY—FOURTH DISTRICT																			
1	Big Creek Coal Co., No. 2.....	St. David.....	2	17	5	162	24	44	2	.....	.....	5	5	6	272	12	284	262	265, 314
2	Maplewood Coal Co., No. 2.....	Farmington.....	8	18	7	.....	2	200	4	6	.....	6	8	.....	258	21	279	212	229, 742
3	Monmouth Coal Mining Co., No. 1.....	Brerton.....	3	18	20	.....	.....	206	2	3	.....	5	5	7	264	16	280	206	215, 318
4	Alden Coal Co., No. 6.....	Norris.....	2	23	15	.....	.....	192	2	3	.....	10	5	.....	252	29	281	189	209, 252
5	Big Creek Coal Co., No. 4.....	Duntermine.....	3	19	12	97	18	45	2	2	.....	2	2	4	204	4	208	213	188, 834
6	Canton Coal Mining Co.	Canton.....	2	20	11	.....	.....	150	2	2	.....	2	4	3	194	.....	194	248	169, 474
7	Simmons Coal Co.	do.....	2	14	8	.....	.....	138	2	2	.....	2	3	.....	169	13	182	214	153, 655
8	Eagle Mining Co., Eagle.....	do.....	2	15	7	.....	.....	145	2	2	.....	2	2	3	178	15	193	238	147, 188
9	Norris Coal Mining Co., Norris.....	Norris.....	4	18	6	.....	.....	146	2	5	.....	5	5	4	190	27	217	191	139, 253
10	Silver Creek Coal Co., No. 1.....	Farmington.....	2	7	3	.....	.....	100	2	1	.....	2	1	1	118	10	128	218	128, 367
11	Star Coal Co., No. 3.....	Cuba.....	2	11	14	.....	.....	112	2	4	.....	2	4	.....	148	3	151	227	126, 670
12	National Coal Mining Co.	Farmington.....	.....	.....	.....	.....	.....	116	2	.....	.....	2	2	.....	135	8	143	201	90, 117
13	Big Creek Coal Co., No. 3.....	Cuba.....	2	9	3	.....	.....	99	2	.....	.....	2	2	.....	121	20	141	140	89, 765
14	Star Coal Co., No. 1.....	Cuba.....	2	12	16	.....	.....	109	2	2	.....	2	4	3	148	2	150	210	61, 290
15	Alden Coal Co., No. 5.....	Farmington.....	2	14	.....	.....	.....	107	2	2	.....	2	3	.....	131	25	156	122	58, 361
16	Star Coal Co., No. 2.....	Cuba.....	2	9	15	.....	.....	90	2	2	.....	2	2	1	122	3	125	124	56, 434
17	Spoon River Coal Co., No. 1.....	Mayton.....	2	8	4	.....	.....	40	2	2	.....	1	1	.....	58	4	62	210	40, 384
18	Star Coal Co., No. 1.....	Farview.....	2	3	2	.....	.....	20	2	.....	.....	1	1	.....	26	1	27	238	22, 717
19	Star Coal Co., No. 1.....	Flat.....	2	3	3	.....	.....	18	1	.....	.....	1	1	.....	30	1	34	47	5, 069
Total.....The district.....																			
			40	250	151	259	44	2, 077	47	45	.....	53	52	52	3, 018	217	3, 235	196	2, 397, 374







16 Tuxhorn Coal Co.	2	17	6	150	2	3	3	186	5	191	170	125,911
17 Auburn & Alton Coal Co.	4	20	.....	106	2	2	2	139	14	153	176	112,554
18 Lefton Coal Co.	4	9	.....	100	2	2	2	124	13	137	160	111,025
19 Central Co-operative Coal Co., Republic	5	11	.....	100	2	3	.....	129	11	140	220	103,014
20 Williamsville Coal Co.	2	15	4	112	2	4	2	145	23	168	168	100,999
21 Springfield Co-operative Coal Co.	3	8	.....	95	2	2	2	122	15	137	168	98,430
22 Barclay Coal Co.	2	21	2	93	2	2	2	127	15	127	152	91,584
23 Spring Creek Coal Co.	2	10	2	88	2	2	2	108	.....	123	191	90,892
24 Central Co-operative Coal Co., "B"	3	10	4	102	2	5	5	135	20	155	168	87,212
25 Citizens Coal Mining Co., "B"	2	11	.....	110	2	2	2	131	15	146	136	78,899
26 T. J. O'Gara Coal Co., Jefferson	2	10	8	130	2	4	4	160	14	174	106	74,527
27 Citizens Coal Mining Co., A	2	8	.....	96	2	3	2	115	23	138	130	56,354
28 Wabash Coal Co.	2	10	.....	81	2	4	3	105	16	121	140	56,002
29 Spaulding Coal Co.	2	12	10	105	2	2	2	139	.....	139	47	25,200
Total.....	78	475	211	536	97	4,401	83	140	157	139	6,320	6,957
The district.....	94	542	216	538	97	4,935	95	158	172	151	6,998	7,739
MACOURIN COUNTY—SEVENTH DISTRICT												
1 Superior Coal Co., No. 3.....	3	33	.....	430	.....	.....	.....	10	28	17	569	837,834
2 Superior Coal Co., No. 2.....	3	28	.....	385	98	.....	.....	6	30	15	565	828,288
3 Superior Coal Co., No. 1.....	3	30	.....	344	98	.....	.....	10	28	19	532	681,852
4 Consolidated Coal Co., No. 14.....	3	31	46	276	62	.....	.....	8	21	10	457	651,229
5 Consolidated Coal Co., No. 15.....	3	22	32	234	62	.....	.....	6	18	16	393	451
6 Royal Collieries Co., No. 1.....	2	24	22	52	260	.....	.....	9	18	8	385	460,201
7 Girard Coal Co., No. 5.....	3	25	5	.....	275	4	4	7	327	23	350	395,652
8 Madison Coal Corporation, No. 5.....	2	19	28	140	40	.....	.....	16	8	8	261	353,002
9 Glenridge Coal Co., No. 1.....	2	16	28	.....	204	2	2	4	8	45	306	279,290
10 Vivian Coal Co.	2	16	8	.....	250	4	9	9	4	9	275	242,122
11 Consolidated Coal Co., No. 8.....	1	9	13	87	26	.....	.....	5	10	5	304	209,213
12 Carlinville Coal Co.	2	12	.....	.....	82	6	2	5	6	152	30	185,541
Total.....	29	205	182	1,896	486	1,071	16	87	176	119	4,327	77,790
The district.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5,202,014
MONTGOMERY COUNTY—SEVENTH DISTRICT												
1 Peabody Coal Co., No. 14.....	3	.....	38	.....	452	.....	.....	20	20	6	539	551,772
2 Shoal Creek Coal Co., No. 1.....	2	21	30	300	50	.....	4	12	12	15	446	542,473
3 Peabody Coal Co., No. 15.....	3	.....	234	38	38	.....	.....	12	11	5	303	395,003
4 Hillsboro Coal Co.	4	18	48	126	18	.....	.....	4	4	2	224	351,723
5 Peabody Coal Co., No. 12.....	3	31	.....	230	.....	.....	.....	12	11	6	293	271,839
6 Peabody Coal Co., No. 11.....	3	20	.....	111	24	.....	.....	6	6	5	175	167,070
7 Clover Leaf Mining Co., No. 2.....	3	14	4	.....	141	2	8	8	4	3	179	83,516
8 Farmersville Coal Mining Co., No. 1.....	1	3	5	.....	33	2	2	2	2	48	12	26,922
9 Litchfield Coal Co., No. 7.....	1	4	5	.....	36	2	2	2	2	52	11	20,593
10 Peabody Coal Co., No. 10.....	2	2	8	.....	32	.....	.....	2	2	2	50	7,418
Total.....	25	113	138	771	130	924	10	80	74	44	2,309	2,418,329
The district.....	54	378	320	2,667	616	1,995	26	107	250	163	6,636	7,620,343



TABLE 37—Continued

No.	Name of operator	Postoffice address or location of mine	Number of employees in each occupation										Total classified	Number not classified	Total number of employees	Number of days in operation	Total tons produced
			Number of employees in each occupation														
			Cagers	Drivers	Laborers	Loaders	Machine-men	Miners	Shot-firers	Timber-men	Track-men	Trappers					
BOND COUNTY—EIGHTH DISTRICT																	
1	Pocahontas Mining Co., No. 1	Pocahontas	2	13						120	2	2	4	145	20	165	139,783
2	Northern Coal & Supply Co.	Sorento	1	12					93	2	1	2	5	116	12	128	92,216
	Total		3	25					213	4	3	4	9	261	32	293	231,999
CLINTON COUNTY—EIGHTH DISTRICT																	
1	Southern Coal & Coke M. Co., No. 9	New Baden	2	19	5	218	70					10	14	346	63	409	367,619
2	Breese-Trenton Mining Co., East Mine	Breese	4	10	8				170	4	4	4	6	210	24	234	250
3	North Breese Coal Mining Co., N. Mine	do.	6	21	18	83	17		92	4	5	7	2	255	26	281	200
4	Consolidated Coal Co., W. Mine	do.	3	11	2				145	2	2	3	2	170	24	194	115
5	Breese-Trenton Mining Co., Buxton	Beckemeyer	2	11	9				142	4	4	4	1	177	20	197	88
	Total		17	72	42	301	87		549	14	25	32	19	1,158	157	1,315	1,036,303
MADISON COUNTY—EIGHTH DISTRICT																	
1	New Staunton Coal Co., No. 1	Livingston	2	35	10	404	62					3	32	555	35	590	848,715
2	Mt. Olive & Staunton Coal Co., No. 2	Staunton	4	29	8	348	58					4	14	479	68	547	146
3	Lumachi Coal Co., No. 2	Collinsville	3	36	30	240	42					18	14	393	46	439	175
4	Donk Bros. C. & C. Co., No. 2	Maryville	9	30	58		75		225			30		432	40	472	174
5	Donk Bros. C. & C. Co., No. 1	Donkville	8	24	35				228	4		2	9	315	24	339	169
6	Madison Coal Corp., No. 2	Glen Carbon	4	18	43	136	46		18			9	4	282	30	312	184
7	DeCamp Coal Mining Co., No. 1	Staunton	1	13	6		18		130			1	6	176	19	195	247
8	Donk Bros. C. & C. Co., No. 3	Troy	1	15	35		18		185	4		5	2	276	75	351	174
9	Kerns-Donnewald Coal Co.	Warden	2	10	20	126	18					4	9	192	17	209	204
10	Madison Coal Corp., No. 4	Glen Carbon	2	20	49	85	37		58			8	4	306	19	285	138
11	Mt. Olive & Staunton Coal Co., No. 1	Staunton	5	18	6	198	32					4	9	288	46	334	87
12	Lumachi Coal Co., No. 3	Collinsville	2	12	7	70	13					4	5	117	31	148	105
13	W. S. Walker, Hennessey	Edwardsville	1	5	4	42	14		5			1	1	76	5	81	151
14	City Coal Co. of Edwardsville	do.	1	8	5	48	20		34			2	1	87	9	96	201
15	Edwardsville Home Trade Coal Co.	do.	1	3					21					38	3	41	218
16	Brookside Coal Co.	Troy	1	3								4	1	30	8	38	120
	Total		51	279	316	1,697	435		904	8	119	114	79	4,002	475	4,477	169
MARION COUNTY—EIGHTH DISTRICT																	
1	Marion County Coal Co.	Centralla	2	24	57	229	32			4	12	10	9	379	43	422	203
2	Chl. and Sandoval Coal Co., No. 2	Sandoval	6	25					165	4	2	6	6	214	15	229	208

	5	19	130	20	573	20	4	3	8	189	24	213	246	197, 058
3 Odin Coal Co.	2	26	.....	20	185	6	2	4	8	253	19	272	156	167, 516
4 Centralia Coal Co., No. 2	2	21	.....	145	4	4	4	4	8	188	15	203	147	147, 689
5 Centralia Coal Co., No. 4	3	8	.....	78	2	1	3	3	2	97	10	107	223	84, 615
6 Chi. and Sandoval Coal Co., No. 1	20	123	57	359	72	573	20	25	41	1, 320	126	1, 446	197	1, 188, 551
Total.....	91	499	415	2, 357	594	2, 239	46	172	148	6, 741	790	7, 531	176	6 289, 805
The district.....														
ST. CLAIR COUNTY—NINTH DISTRICT														
1 St. Louis & O'Fallon Coal Co., No. 2	4	30	90	300	90	35	2	12	7	572	40	612	233	713, 381
2 Consolidated Coal Co., No. 17	6	25	22	196	64	.....	7	11	1	332	41	373	233	615, 318
3 Prairie Coal Co.	6	20	40	218	.....	6	.....	20	1	329	6	335	248	420, 363
4 Southern Coal Coke M. Co., No. 8	2	22	5	210	32	.....	6	8	2	285	46	331	215	391, 316
5 Southern Coal Coke M. Co., No. 7	6	23	6	150	38	.....	4	8	3	234	35	269	202	283, 079
6 Jos. Taylor Coal Co., St. Ellen	2	9	10	.....	206	2	.....	6	4	243	23	266	143	203, 389
7 St. Louis & O'Fallon Coal Co., No. 1	4	20	62	.....	280	4	4	8	2	384	18	402	80	153, 461
8 Superior Coal Co.	2	10	8	90	20	.....	.....	5	.....	135	8	143	189	138, 369
9 Kolb Coal Co. & Mining Co.	1	6	13	.....	112	1	.....	3	.....	133	.....	133	196	124, 031
11 Kolb Coal Co., No. 1	2	5	14	1	75	1	.....	.....	.....	135	4	139	187	121, 137
12 Kolb Coal Co., Fairbanks	2	1	8	78	.....	1	.....	.....	.....	98	.....	98	365	98, 886
13 Breese Trenton Mining Co.	2	12	37	75	38	70	16	6	8	194	6	200	123	84, 357
14 Mulberry Hill Coal Co., No. 1	2	4	1	.....	8	.....	.....	1	.....	98	.....	98	156	85, 672
15 Star Coal Co., Star	2	4	1	.....	16	52	.....	2	.....	89	6	95	120	81, 298
16 Jos. Taylor Coal Co., Taylor	4	8	6	.....	104	2	.....	3	.....	77	6	83	175	76, 741
17 Jones Bros. Coal Co., No. 1	1	4	6	.....	62	2	.....	2	.....	127	14	141	104	74, 096
18 Eldmar Coal Co.	2	7	7	8	30	2	.....	2	.....	77	3	80	120	63, 853
19 Borders Coal Co., No. 1	3	7	1	.....	90	2	.....	2	.....	51	10	115	89	53, 744
30 Summit Coal & Mining Co.	2	8	5	.....	60	2	.....	1	.....	78	3	81	114	52, 795
21 Jos. Taylor Coal Co., Prairie	4	7	5	.....	100	2	.....	3	.....	121	12	133	81	51, 328
22 Johnson Coal Co., O. K.	2	5	2	.....	70	2	.....	2	2	85	6	91	119	49, 210
23 White Coal Co.	2	7	6	.....	70	2	.....	2	.....	83	6	89	93	48, 146
24 Pittsburg Mining Co.	1	3	6	23	30	.....	.....	1	.....	40	31	55	192	37, 585
25 Oakdale Coal Mining Co., Glendale	1	2	6	.....	4	.....	.....	.....	.....	30	5	36	206	43, 906
26 Fullerton Coal Co.	2	7	2	.....	70	2	.....	2	.....	31	5	42	196	42, 900
27 Grooms Coal Co., Rutland	1	3	1	.....	40	1	.....	1	.....	51	4	55	192	37, 585
28 Gauch Coal Mining Co., Enterprise	1	3	1	.....	33	2	.....	1	.....	51	4	44	140	31, 500
29 Mo. and Ill. Coal Co.	1	5	46	.....	4	.....	1	.....	.....	58	16	74	70	30, 845
30 Maule Coal Co., Harmony	1	3	1	.....	38	2	.....	1	.....	46	2	48	140	29, 207
31 International C. M. Co., Carbon Mine	1	5	1	.....	70	2	.....	1	.....	83	3	83	92	28, 237
32 L. Senior, Branch	1	2	1	.....	18	.....	.....	.....	.....	21	4	25	165	27, 169
33 Highland Coal Co.	2	2	20	.....	24	.....	.....	.....	.....	23	2	25	249	25, 864
34 New National Coal Co., National	.....	1	1	.....	1	.....	.....	.....	.....	26	2	28	240	25, 250
35 Southern Coal Coke M. Co., No. 1	2	8	5	55	12	.....	2	4	1	89	15	104	54	22, 554
36 Tiffin Coal Co.	1	4	3	.....	37	2	1	1	.....	50	7	57	76	21, 595
37 Kolb Coal Co., Valley Mine	1	2	3	1	30	1	.....	.....	.....	38	.....	38	111	20, 464
38 Chuly Miller Coal Co., Ruby	2	2	2	.....	35	.....	.....	.....	.....	45	3	45	88	20, 409
39 St. Clair Coal Co.	1	5	3	26	.....	4	.....	.....	.....	39	7	46	125	19, 323
40 Vulcan Coal Mining Co., Hippard	1	4	4	.....	40	2	.....	2	.....	55	6	61	67	18, 675

TABLE 37—Continued

No.	Name of operator	Postoffice address or location of mine	Number of employees in each occupation								Total classified	Number not classified	Total number of employees	Number of days in operation	Total tons produced
			Cagers	Drivers	Laborers	Loaders	Machine-men	Miners	Shot-firers	Timber-men	Track-men	Trappers			
41	Golden Rule Coal Co.	Lenzburg	1	2	1	2	1	23	4	1	1	30	3	33	17,334
42	Egyptian Coal & Mining Co., Week	Marissa	2	3	1	1	1	38	2	1	1	47	5	52	16,080
43	Fisher Fuel Co.	Millstadt	1	2	21	1	1	15	1	1	1	21	21	21	15,200
44	Silver Creek Valley Coal Co.	Bellefonte	1	4	1	1	1	25	4	1	1	37	4	22	13,961
45	Mulberry Hill Coal Co., Avery	Bellefonte	1	1	1	1	1	10	1	1	1	11	2	13	11,800
46	Reeb Bros Coal Co., Murphy	do.	1	7	34	1	1	12	2	1	1	51	16	67	11,507
47	Mo. and Ill. Coal Co., Wildman	do.	1	1	1	1	1	12	2	1	1	13	3	16	8,286
48	Southern Coal & Coke Co., No. 3	do.	1	3	1	1	1	24	2	1	1	30	4	34	8,294
49	Egyptian Coal Mining Co., Advance	do.	1	1	2	1	1	14	1	1	1	19	5	28	5,585
50	Kolb Coal Co., V. Hill	do.	1	1	2	1	1	14	1	1	1	19	5	28	5,561
Total—The district.			87	343	430	1,503	338	2,178	64	58	123	31	5,572	142	4,637,552
JACKSON COUNTY—TENTH DISTRICT															
1	Big Muddy Coal & Iron Co., No. 9	Murphysboro	2	4	1	1	40	139	4	1	1	185	39	224	256,240
2	Muddy Valley Mining Co.	Hallidayboro	5	18	6	16	135	40	2	4	5	10	198	54	148,727
3	Big Muddy Coal & Iron Co., Harrison	Murphysboro	2	4	6	30	12	20	2	5	2	2	193	29	97,838
4	Gartside Coal Co., No. 4	do.	2	11	6	40	14	2	2	1	5	3	94	16	110
5	Gus Blair B. M. C. Co., No. 1	do.	1	5	1	1	1	75	2	1	1	65	17	82	66,326
6	J. B. Kerskomeier Coal Co., No. 1	Desoto	2	5	1	1	1	2	2	1	2	2	89	8	214
7	Gus Blair B. M. Coal Co., No. 2	Murphysboro	1	4	2	30	14	2	1	1	1	55	8	97	41,713
8	De Soto Peacock Coal Co., No. 1	DeSoto	1	1	1	1	1	8	1	1	1	10	1	11	41,008
Total.			16	52	15	251	120	382	6	13	16	18	172	1,061	702,985
JEFFERSON COUNTY—TENTH DISTRICT															
1	Mt. Vernon Coal Co.	Mt. Vernon	2	4	3	1	1	40	2	6	4	1	63	76	35,619
Total.			2	4	3	1	1	40	2	6	4	1	63	76	35,619
PERRY COUNTY—TENTH DISTRICT															
1	Security Coal Mining Co., No. 1	Duquoin	3	25	18	224	28	135	9	10	3	320	51	371	275,674
2	Willis Coal Mining Co., No. 1	Willsville	1	15	7	135	28	40	2	6	5	197	29	226	244,538
3	Paradise Coal Co.	Duquoin	2	16	20	180	20	30	2	3	6	294	31	325	231,453
4	Maestic Coal & Coke Co.	do.	4	12	12	140	12	30	2	4	4	220	20	240	215,730
5	Ritchie Coal Co., No. 1	Pineknayville	4	7	12	94	26	2	2	2	2	153	22	153	158,852
6	Duquoin Operating Co., Queen	Duquoin	4	20	23	150	2	2	2	2	2	209	18	227	158,704
7	Mo. and Ill. Coal Co., No. 4	Willsville	1	12	4	18	95	2	4	4	4	138	3	141	126,726

8	St. Louis and Coulterville C. Co., Vulcan.	Coulterville.....	1	6					2	75	2	2	2	2	98	8	101	138	61, 400
9	Bald Eagle Mining Co.....	Craig.....	2	4	3	10	5		40	2	1	1	1	69	5	74	90	48, 411	
10	Wilson Coal Co.....	Cutler.....	1	1					22					24	3	27	90	23, 559	
11	King City Coal & Mining Co.....	do.....	2	3		1			32	2	1	1	1	42	3	45	90	16, 816	
12	Little Muddy Fuel Co.....	Tamaroa.....	2	7	3				57			2	2	73	9	82	33	13, 794	
13	Bailey Bros. Coal Co., Diamond.	Sunfield.....	1	3					25					29	4	33	148	13, 752	
14	Brilliant Coal & Coke Co., Horn.	Duquoin.....	2	4			2		75	4	1	1	2	9	8	99	47	13, 047	
15	Greenwood-Davis Coal Co., No. 2.	do.....	2						20	2				25	2	27	169	9, 469	
16	Bailey Bros. Coal Co., Sun.	Sunfield.....	1	1					6					7	2	9	216	7, 469	
17	Strait Coal Co., Pinkneyville.	Pinkneyville.....	1	1					8		2	1	1	14	2	16	200	3, 255	
18	Dynamic Coal Mining Co., No. 3.	Duquoin.....	1	2					20		1			25	4	29	48	1, 292	
Total.....			35	138	107	784	141	695	25	29	45	24	2, 023	202	2, 225	142	1, 634, 211		
RANDOLPH COUNTY—TENTH DISTRICT																			
1	Willis Coal Mining Co., No. 6.....	Percy.....	2	11	6	140	28			2	6	6	201	14	215	220	269, 110		
2	Jones Bros. Coal & Mining Co., No. 2.....	Marissa.....	2	8	12			106	2		2	2	132			130	103, 569		
3	Wilson Bros. Coal Co., No. 7.....	Sparta.....	2	7		42	6	36			4	1	98	8	106	125	78, 306		
4	Illinois Fuel Co., No. 1.....	do.....	2	11	6			14	90	1	4	2	130	12	142	138	75, 600		
5	Moffatt Coal Co., No. 4.....	do.....	2	12	4	74	31				3	2	126	12	136	142	73, 318		
6	Bessemer Coal Mining Co., Crystal.	Tilden.....	2	8	2			75	2		2	1	93	8	103	79	27, 813		
7	Bessemer Coal Mining Co., Tilden.	do.....	2	8	2			75	4	1	2	1	95	8	103	114	26, 805		
8	Underwood Coal Mining Co., W. Mine.	Coulterville.....	2	3				30	2	1			39	4	43	114	23, 164		
9	Randolph County Coal Co.....	do.....	2	5	1			38	4	2	2	1	56	7	63	61	13, 932		
10	Boyd Coal & Coke Co., No. 1.....	Sparta.....	2	3				26	2		2	2	37	7	44	45	7, 426		
Total.....			20	76	33	256	79	477	16	7	27	16	1, 007	90	1, 087	113	699, 983		
WASHINGTON COUNTY—TENTH DISTRICT																			
1	Centralia Coal Co., No. 5.....	Centralia.....	2		25			200	6	6	4	4	249		249	130	200, 445		
2	Nicholson Coal Co.....	Nashville.....	4	4	10			40	2	1	1		59	6	65	233	36, 844		
3	Kuhn Col. Co.....	Dubois.....	1	5				45	2		2		55	8	63	60	7, 293		
Total.....			4	9	35			285	10	7	9	4	363	14	377	141	244, 582		
The district.....			77	279	193	1, 291	341	1, 879	59	62	101	63	4, 345	481	4, 826	145	3, 317, 383		
FRANKLIN COUNTY—ELEVENTH DISTRICT																			
1	Ohio Valley Mining Co., No. 8.....	West Frankfort.....	6	20	30	312	44		6	4	10	8	440	70	510	231	616, 531		
2	Zeigler Dist. Col. Co., N. Mine.....	Christopher.....	3	13	46	170	40	46	4	1	22	10	355	69	424	256	603, 187		
3	Bell and Zollar Mining Co., No. 1.....	Zeigler.....	3	38	85	310	47		4	8	20	4	516	69	585	247	568, 844		
4	United Coal Mining Co., No. 1.....	Christopher.....	2	33	8	256	38	17		9	19	8	394	56	450	234	535, 672		
5	Sesser Coal Co.....	do.....	2	17	4	2	64	200	4	15	15	7	330	45	225	471	408		
6	Benton Coal Co.....	Benton.....	4	23	16	224	32	60	4	12	16	8	390	55	454	207	406, 275		
7	Hart-Williams Coal Co., No. 1.....	do.....	4	20	8	309	36	28	4	8	8	8	432	30	463	173	391, 119		
8	Franklin Coal & Coke Co., Mitchell.	royalton.....	8	10	36	330	24	20	4	1	8	1	412	65	507	190	331, 897		
9	United Coal Mining Co., No. 2.....	Buckner.....	3	24	7	133	16			18	23	10	298	45	343	217	310, 653		
10	W. P. Rend Coal Co., No. 1.....	Rend.....	3	15	21	150	30		4	14	6	3	246	51	297	230	274, 225		
11	So. Ill. Coal & Coke Co., Fossum Ridge.	Herrin.....	2	13	14	115	36			2	5	4	191	22	231	267	221, 448		
12	Derling Coal Co., No. 11.....	West Frankfort.....	2	13	18	130	60		3	4	5	6	241	32	273	160	205, 707		

TABLE 37—*Concluded*

No.	Name of operator	Postoffice address or location of mine	Number of employees in each occupation								Total classified	Number not classified	Total number of employees	Number of days in operation	Total tons produced
			Cagers	Drivers	Laborers	Loaders	Machine-men	Miners	Shot-firers	Timber-men	Track-men	Trappers			
13	Carroll & Franklin Co's. Coal Co., No. 1	Hanford	3	7	10	75	6	.....	2	6	6	2	19	186	111,902
14	Dering Coal Co., No. 18	West Frankfort	2	8	6	50	30	.....	2	2	2	1	19	122	84,783
15	West Frankfort Coal Co., No. 1	do	2	5	.....	52	8	.....	2	.....	.....	.....	19	167	167
16	Christopher Coal Mining Co., No. 1	Christopher	2	.....	6	31	16	.....	.....	1	6	.....	8	79	69,045
	Total		48	259	315	2,709	527	371	51	105	173	80	676	5,314	209,523,526
GALLATIN COUNTY—ELEVENTH DISTRICT															
1	Hickory Hill Coal Co., Dempsey	Equality	.....	6	.....	.....	.....	37	.....	.....	2	.....	47	212	38,677
2	Gallatin C. & C. Co., No. 1	do	1	3	1	.....	.....	40	.....	.....	.....	.....	7	53	21,960
3	Crescent Coal Co., E. Mine	do	1	3	.....	15	6	.....	.....	.....	1	.....	6	32	8,102
	Total		2	12	1	15	6	77	.....	.....	4	.....	15	132	68,739
SALINE COUNTY—ELEVENTH DISTRICT															
1	Saline County Coal Co., No. 2	Ledford	14	36	15	201	30	.....	.....	9	14	4	75	398	552,064
2	O'Gara Coal Co., No. 9	Harrisburg	5	29	104	299	48	.....	.....	7	8	9	30	539	222,504,557
3	Saline County Coal Co., No. 3	do	9	.....	17	177	27	.....	.....	6	18	.....	95	349	284,467,698
4	Wasson Coal Co., No. 1	Wasson	2	18	50	250	32	.....	.....	4	4	4	20	384	285,357,949
5	O'Gara Coal Co., No. 3	Harrisburg	4	37	90	239	34	.....	.....	3	12	4	34	457	206,343,821
6	O'Gara Coal Co., No. 10	Eldorado	2	18	80	170	25	.....	.....	2	7	4	32	340	295,294,246
7	O'Gara Coal Co., No. 14	Ledford	3	25	75	246	30	.....	.....	3	11	10	30	433	277,803
8	Eldorado Coal Mining Co., No. 1	Eldorado	1	23	40	.....	16	108	.....	4	8	7	2	273	272,512
9	O'Gara Coal Co., No. 4	Harrisburg	5	27	56	220	34	.....	.....	4	7	5	25	383	158,268,106
10	O'Gara Coal Co., No. 15	Carrier Mills	3	21	57	191	32	.....	.....	4	10	6	30	334	200,267,486
11	O'Gara Coal Co., No. 1	do	2	25	87	171	22	.....	.....	2	2	4	30	345	267,664
12	Big Creek Coal Co., No. 1	Eldorado	2	14	10	.....	.....	150	2	7	6	6	197	3	171,143,331
13	O'Gara Coal Co., No. 12	Harrisburg	2	10	37	95	16	.....	.....	2	2	2	23	190	232,124,656
14	O'Gara Coal Co., No. 8	Eldorado	2	12	62	106	20	.....	.....	1	5	4	212	22	172,116,032
15	O'Gara Coal Co., No. 7	Carrier Mills	3	16	50	139	16	.....	.....	5	8	6	19	262	121,794
16	O'Gara Coal Co., No. 11	Eldorado	2	16	53	97	16	.....	.....	2	7	3	26	222	123,106,694
17	Galatia & Saline Coal Co., No. 1	Galatia	1	3	2	.....	.....	30	2	.....	.....	1	6	45	14,000
	Total		62	330	885	2,601	398	348	8	65	12	80	502	5,408	207,449,213

WHITE COUNTY—ELEVENTH DISTRICT									
1	Norris City	1	3	7	4	35	59	126	19,246
1	Norris City Coal Co., No. 1	3	7	4	35	59	126	19,246	
Total									
113		604	1,208	5,325	935	831	308	160,971	9,818,724
The district									
WILLIAMSON COUNTY—TWELFTH DISTRICT									
1	Madison Coal Corporation, No. 9	8	30	50	6	265	8	10	544,369
2	Peabody Coal Co., No. 3	3	20	54	24	150	6	8	537,195
3	Big Muddy Coal & Iron Co., No. 8	5	32	13	246	82	10	17	511,155
4	Johnston City Coal Co., No. 1	3	20	29	40	297	4	10	439,868
5	W. P. Rand C. & C. Co., No. 2	3	20	30	230	37	14	4	420,241
6	Chicago & Carterville Coal Co., A	2	24	46	204	68	10	6	364,888
7	Sunnyside Coal Co., No. 1	2	18	6	90	44	10	14	355,730
8	Madison Coal Corporation, No. 8	5	20	50	40	160	6	8	312,287
9	Western Coal Mining Co., Bush No. 1	4	18	28	130	192	9	11	294,351
10	Southern Illinois C. & C. Co., Oak Ridge	3	16	14	6	130	2	5	283,496
11	Carterville Coal Co., Burr C	4	16	14	305	200	4	8	266,107
12	Big Muddy C. & I. Co., No. 7	3	21	7	16	12	9	11	244,154
13	West Virginia Coal Co., No. 1	3	9	10	127	155	3	15	235,884
14	Carterville & Herrin Coal Co., No. 1	2	11	10	17	160	4	237	207,728
15	Carterville & Herrin Coal Co., No. 2	2	25	17	175	168	5	42	201,543
16	Big Muddy Fuel Co., W. Va.	2	9	25	14	175	4	220	197,589
17	Ill.-Hoeking Washed C. Co., Cart. Dist.	3	17	24	130	25	4	6	191,940
18	Standard Coal Co., McClintock	4	11	4	125	175	7	217	183,837
19	Peabody Coal Co., No. 2	2	12	5	8	150	4	22	176,400
20	Hafer Washed Coal Co., No. 3	1	10	5	125	145	8	198	151,247
21	Chicago Big Muddy C. & C. Co., No. 1	1	10	4	15	175	2	25	148,794
22	Taylor Coal Co., No. 1	3	14	2	16	100	4	3	126,867
23	St. Louis & Carterville Coal Co., Dale	3	14	2	15	113	2	137	112,669
24	Williamson County C. Co., Old Mine	2	9	2	16	100	2	184	102,266
25	Pond Creek Coal Co., Franklin	2	9	2	204	145	3	35	81
26	Scranton Big C. M. Co., No. 1	2	18	20	135	204	3	304	94,978
27	Chicago & Carterville Coal Co., "B"	2	11	8	85	135	2	119	92,630
28	Carterville & Big Muddy Coal Co., John	2	12	4	152	85	4	134	130
29	Donaly-Koennecke Coal Co.	2	12	4	152	85	4	134	90,719
30	So. Ill. C. & C. Co., Walnut Ridge	2	11	19	55	22	1	80	180
31	Watson Coal Co., No. 2	3	5	2	60	40	2	15	35,396
32	Pittsburg B. M. C. Co., No. 2	1	4	3	8	60	2	10	63
33	Consolidated Coal Co., B. M	1	3	3	8	60	2	10	200
34	Buckley & Miles	1	3	3	8	60	2	10	15,000
35	J. S. McNeil	1	3	3	8	60	2	10	10,000
Total—The district									
93		506	455	1,407	447	4,287	92	143	7,685,189
Total									
113		604	1,208	5,325	935	831	308	160,971	9,818,724



Table 38 is a recapitulation by districts of the items shown in Table 37.

TABLE 38—RECAPITULATION OF THE NUMBER OF PERSONS EMPLOYED IN THE DIFFERENT OCCUPATIONS IN SHIPPING MINES OF THE STATE, THE TOTAL NUMBER EMPLOYED, AVERAGE DAYS OF WORKING TIME AND TOTAL TONS PRODUCED—1913

Districts	Num-ber of mine	Number of employees in each occupation										Total Classi-fied	Num-ber not classi-fied	Total Num-ber of em-ployees	Num-ber of days in opera-tion	Total tons pro-duce
		Cagers	Drivers	Labor-ers	Load-ers	Ma-chine-men	Miners	Shot-firers	Timber-men	Track-men	Trap-pers					
First.....	21	48	282	199	61	1	3,109	2	50	78	33	3,863	532	4,395	210	1,972,525
Second.....	14	32	275	351	20	7	3,076	8	44	36	82	3,931	299	4,230	198	2,208,343
Third.....	33	42	307	280	172	46	3,280	48	66	68	62	4,351	469	4,820	210	2,952,056
Fourth.....	19	40	250	151	259	44	2,077	47	45	53	52	3,018	217	3,235	196	2,397,374
Fifth.....	36	68	370	733	1,079	124	3,433	59	165	139	110	6,280	547	6,827	187	5,406,941
Sixth.....	35	94	542	216	538	97	4,835	95	158	172	151	6,998	978	7,139	180	6,209,181
Seventh.....	22	54	378	320	2,067	616	1,995	26	167	250	163	6,636	978	7,614	185	7,620,343
Eighth.....	29	91	499	415	2,357	594	2,239	46	172	180	148	6,741	790	7,531	176	6,289,805
Ninth.....	50	87	343	430	1,503	338	2,178	64	58	123	31	5,155	417	5,572	142	4,637,552
Tenth.....	40	77	279	193	1,291	341	1,879	59	62	101	63	4,345	481	4,826	145	3,317,383
Eleventh.....	37	113	604	1,208	5,325	935	831	59	171	308	160	9,714	1,199	10,913	199	9,818,724
Twelfth.....	35	93	506	455	1,407	447	4,287	92	143	211	153	7,794	1,359	9,153	179	7,685,189
Total.....	371	839	4,635	4,931	16,679	3,590	33,319	605	1,301	1,719	1,208	68,826	8,029	76,855	179	60,515,416



## RELATIVE RANK OF COUNTIES

Table 39. In this table will be seen the rank of the counties which have produced 500,000 tons or more of coal for one or more of the years since 1909.

TABLE 39—RELATIVE RANK OF COUNTIES PRODUCING 500,000 TONS OF COAL OR OVER FOR A SERIES OF FIVE YEARS—1909-1913

Counties	1913		1912		1911		1910		1909	
	Rank	Tons	Rank	Tons	Rank	Tons	Rank	Tons	Rank	Tons
Williamson.....	1	7,709,110	1	7,086,554	2	5,212,749	1	5,908,544	1	5,901,815
Sangamon.....	2	5,789,446	2	5,488,419	3	4,716,406	2	5,183,322	2	5,334,148
Franklin.....	3	5,232,526	6	4,026,815	8	2,356,439	7	2,071,143	7	2,442,978
Macoupin.....	4	5,208,682	3	4,913,050	4	4,279,383	4	4,040,425	3	4,361,390
St. Clair.....	5	4,740,212	4	4,516,548	1	5,274,006	3	4,184,555	4	3,409,362
Saline.....	6	4,519,936	5	4,088,575	7	3,232,736	6	3,062,098	6	2,798,527
Madison.....	7	3,890,639	7	3,454,536	5	3,766,002	5	3,719,155	5	3,287,418
Vermilion.....	8	3,510,661	8	3,374,443	6	3,270,380	8	2,033,467	8	2,221,634
Fulton.....	9	2,533,079	9	2,437,173	10	1,865,222	9	1,979,138	9	2,205,322
Montgomery.....	10	2,418,329	10	2,280,341	9	2,189,078	10	1,814,203	13	1,480,635
Bureau.....	11	1,798,436	11	1,681,103	13	1,234,121	13	1,352,944	11	1,654,902
Perry.....	12	1,643,043	13	1,406,317	11	1,451,080	12	1,390,436	12	1,536,903
LaSalle.....	13	1,602,966	12	1,605,482	12	1,354,784	11	1,471,944	10	1,666,220
Christian.....	14	1,481,737	14	1,346,191	14	1,206,467	14	1,317,487	14	1,380,515
Peoria.....	15	1,244,924	15	1,207,723	18	964,698	18	924,873	18	821,329
Marion.....	16	1,188,551	16	1,203,947	15	1,134,377	15	1,065,268	16	1,096,847
Clinton.....	17	1,036,303	17	1,012,982	17	1,000,536	16	1,000,935	17	1,051,108
Putnam.....	18	752,729	21	716,551	21	585,135	.....	.....	21	561,804
Jackson.....	19	727,484	20	724,374	19	648,551	20	665,385	20	650,033
Randolph.....	20	712,058	18	762,816	16	1,005,447	19	1,846,969	19	757,622
Grundy.....	.....	.....	19	756,388	20	601,393	17	927,152	15	1,177,073
Total counties and tons	20	57,740,851	21	54,090,308	21	47,348,990	20	44,926,493	21	45,797,585

## COAL PRODUCING COUNTIES

Table 40 is a list of the coal producing counties of the State, showing the number of the inspection district, number of mines, men employed and tons produced in each.

TABLE 40—COAL PRODUCING COUNTIES OF THE STATE, SHOWING NUMBER OF DISTRICT, MINES, MEN AND TONS, ALL MINES, SHIPPING MINES, LOCAL MINES—1913

Number	County	District	All mines		Shipping mines		Local mines	
			Mines	Tons	Mines	Tons	Mines	Tons
1	Bond.....	8	2	293	231,999	2	293	231,999
2	Bureau.....	2	11	3,686	1,798,436	7	3,647	1,784,688
3	Cass.....	4	1	2	560	.....	1	560
4	Christian.....	5	10	2,026	1,481,737	10	2,026	1,481,737
5	Clinton.....	8	5	1,315	1,036,303	5	1,315	1,036,303
6	Franklin.....	11	16	5,314	5,232,526	16	5,314	5,232,526
7	Fulton.....	4	129	3,572	2,533,079	19	3,235	2,397,374
8	Gallatin.....	11	8	154	78,099	3	132	68,739
9	Greene.....	7	1	10	3,845	.....	1	3,845
10	Grundy.....	1	12	1,151	427,515	5	1,096	411,964

TABLE 40—*Concluded*

Number	County	District	All mines			Shipping mines			Local mines		
			Mines	Men	Tons	Mines	Men	Tons	Mines	Men	Tons
11	Hancock	4	1	10	2,822				1	10	2,822
12	Henry	2	22	143	56,151	1	17	4,168	21	126	51,983
13	Jackson	10	20	1,099	727,484	9	1,061	702,985	12	38	24,499
14	Jefferson	10	2	78	35,659	1	76	35,619	1	2	40
15	Jersey	7	1	5	1,400				1	5	1,400
16	Johnson	12	2	9	1,084				2	9	1,084
17	Knox	2	25	94	30,810				25	94	30,810
18	LaSalle	1	31	3,220	1,602,966	13	2,895	1,382,945	18	325	220,021
19	Livingston	1	5	127	66,424	1	63	28,875	4	64	37,549
20	Logan	6	4	591	411,003	4	591	411,003			
21	Macon	5	5	548	279,732	5	548	279,732			
22	Macoupin	7	15	5,000	5,208,682	12	4,985	5,202,014	3	15	6,668
23	Madison	8	27	4,567	3,890,639	16	4,477	3,832,952	11	90	57,687
24	Marion	8	6	1,446	1,188,551	6	1,446	1,188,551			
25	Marshall	3	12	1,047	468,600	6	1,034	465,028	6	13	3,572
26	McDonough	4	43	119	28,926				43	119	28,926
27	McLean	6	2	191	93,236	2	191	93,236			
28	Menard	3	12	342	169,149	4	300	150,167	8	42	18,982
29	Mercer	2	13	565	421,593	4	516	403,466	9	49	18,127
30	Montgomery	7	10	2,629	2,418,329	10	2,629	2,418,329			
31	Moultrie	5	1	109	105,280	1	109	105,280			
32	Morgan	4	1	4	956				1	4	956
33	Peoria	3	57	1,712	1,244,924	14	1,468	1,133,854	43	244	111,070
34	Perry	10	23	2,244	1,643,043	18	2,225	1,634,214	5	19	8,829
35	Putnam	3	2	1,230	752,729	2	1,230	752,729			
36	Randolph	10	16	1,116	712,058	10	1,087	699,983	6	29	12,075
37	Rock Island	2	11	121	55,709	1	31	9,268	10	90	46,441
38	Saline	11	28	5,447	4,519,936	17	5,408	4,498,213	11	39	21,723
39	Sangamon	6	34	7,080	5,789,446	29	6,957	5,704,942	5	123	84,504
40	Schuyler	4	11	24	6,198				11	24	6,198
41	Scott	4	5	11	2,654				5	11	2,654
42	Shelby	5	7	371	202,968	2	313	195,569	5	58	7,399
43	Stark	2	7	58	21,974	1	19	6,753	6	39	15,221
44	St. Clair	9	65	5,707	4,740,212	50	5,572	4,637,552	15	135	102,660
45	Tazewell	3	9	455	294,390	5	409	270,783	4	46	23,607
46	Vermillion	5	44	4,042	3,510,661	18	3,831	3,344,623	26	211	166,038
47	Warren	2	10	37	7,643				10	37	7,643
48	Washington	10	4	381	246,932	3	377	244,582	1	4	2,350
49	White	11	1	59	19,246	1	59	19,246			
50	Will	1	3	359	153,301	2	341	148,741	1	18	4,560
51	Williamson	12	46	9,198	7,709,110	35	9,153	7,685,189	11	45	23,921
52	Woodford	3	2	379	179,495	2	379	179,495			
Total			840	79,497	61,846,204	371	76,855	60,515,416	469	2,642	1,330,788

## DISPOSITION OF OUTPUT

Table 41 shows the disposition of the product of the shipping mines by districts. The number of mines and the total output is also shown.

TABLE 41—DISPOSITION OF THE OUTPUT OF SHIPPING MINES, BY DISTRICTS, ALSO LOCAL MINES

Districts	Number of mines	Total output—tons	Disposition of product—tons			
			Shipped from mines	Supplied to locomotives at mines	Sold to local trade	Consumed and wasted at mines
First	21	1,972,525	1,609,594	79,597	129,380	153,954
Second	14	2,208,343	2,021,917	38,295	41,060	107,071
Third	33	2,952,056	2,697,029	60,051	98,404	96,572
Fourth	19	2,397,374	2,285,728	33,917	14,934	62,795

TABLE 41—*Concluded*

Districts	Number of mines	Total output—tons	Disposition of product—tons			
			Shipped from mines	Supplied to locomotives at mines	Sold to local trade	Consumed and wasted at mines
Fifth.....	36	5,406,941	4,782,065	123,114	182,906	318,856
Sixth.....	35	6,209,181	5,642,744	77,566	265,376	223,495
Seventh.....	22	7,620,343	7,112,684	72,004	146,283	289,372
Eighth.....	29	6,289,805	5,828,906	161,580	109,043	190,276
Ninth.....	50	4,637,552	4,234,581	101,271	115,329	186,371
Tenth.....	40	3,317,383	2,966,332	128,412	94,470	128,169
Eleventh.....	37	9,818,724	9,464,381	28,643	84,092	241,608
Twelfth.....	35	7,685,189	7,326,413	120	45,592	313,064
Shipping mines.....	371	60,515,416	55,972,374	904,570	1,326,869	2,311,603
Local mines.....	469	1,330,788	.....	.....	1,018,264	312,524
The State.....	840	61,846,204	55,972,374	904,570	2,345,133	2,624,127

Table 42 gives the percentage of the items shown in the preceding table. This year 92.49 per cent of the total product was shipped to market.

TABLE 42—PERCENTAGES OF THE OUTPUT OF SHIPPING MINES AND OF THE DISPOSITION, BY DISTRICTS

Districts	Number of mines	Percentages of tons—				
		Total output	Shipped	Supplied to locomotives	Sold to local trade	Consumed or wasted at the mines
First.....	21	3.26	81.60	4.04	6.56	7.80
Second.....	14	3.65	91.56	1.74	1.86	4.84
Third.....	33	4.88	91.36	2.03	3.34	3.27
Fourth.....	19	3.96	95.34	1.42	0.62	2.62
Fifth.....	36	8.93	88.44	2.28	3.38	5.90
Sixth.....	35	10.26	90.88	1.25	4.27	3.60
Seventh.....	22	12.59	93.34	0.94	1.92	3.80
Eighth.....	29	10.39	92.67	2.57	1.73	3.03
Ninth.....	50	7.66	91.31	2.18	2.49	4.02
Tenth.....	40	5.49	89.41	3.87	2.85	3.87
Eleventh.....	37	16.23	96.39	0.29	0.86	2.46
Twelfth.....	35	12.70	95.33	.....	0.59	4.08
Shipping mines.....	371	100.00	92.49	1.49	2.19	3.83
Local mines.....	469	100.00	.....	.....	76.52	23.48

Table 43 presents, for a series of fourteen years, the percentage of the various ways in which the coal was disposed of by all mines.

TABLE 43—TOTAL OUTPUT OF THE SHIPPING AND LOCAL MINES OF THE STATE, ALSO PERCENTAGES OF THE DISTRIBUTION FOR FOURTEEN YEARS

Year	Total output	Percentages of—			
		Tons shipped	Tons supplied to loco-motives	Tons sold to local trade	Tons consumed or wasted at the mines
SHIPPING MINES					
1900.....	24, 026, 996	87. 33	3. 42	5. 12	4. 13
1901.....	25, 536, 816	88. 34	3. 46	4. 12	4. 07
1902.....	28, 824, 750	89. 07	3. 30	3. 74	3. 89
1903.....	33, 676, 537	89. 33	3. 27	3. 59	3. 81
1904.....	35, 779, 517	88. 82	3. 32	3. 80	4. 06
1905.....	35, 956, 543	88. 07	3. 26	3. 88	4. 79
1906.....	37, 122, 811	89. 16	2. 79	3. 75	4. 30
1907.....	46, 436, 839	90. 52	2. 37	2. 84	4. 27
1908.....	47, 809, 730	91. 11	2. 10	2. 73	4. 06
1909.....	47, 958, 562	91. 63	2. 09	2. 62	3. 76
1910.....	47, 225, 201	91. 07	1. 87	3. 40	3. 66
1911.....	48, 758, 657	91. 44	1. 78	3. 00	3. 78
1912.....	56, 096, 695	91. 81	1. 65	2. 76	3. 78
1913.....	60, 515, 416	92. 49	1. 49	2. 19	3. 83
LOCAL MINES					
1900.....	1, 096, 933	.....	5. 66	85. 57	8. 77
1901.....	1, 108, 503	.....	5. 84	86. 62	7. 54
1902.....	1, 196, 550	.....	1. 64	89. 05	9. 41
1903.....	1, 278, 864	.....	1. 29	86. 86	11. 85
1904.....	1, 298, 380	.....	2. 75	89. 46	7. 79
1905.....	1, 226, 831	.....	0. 49	98. 20	1. 31
1906.....	1, 194, 770	.....	.....	95. 91	4. 09
1907.....	1, 361, 782	.....	.....	86. 85	13. 15
1908.....	1, 462, 722	.....	0. 84	83. 04	16. 12
1909.....	1, 205, 148	.....	1. 43	88. 13	10. 44
1910.....	1, 492, 652	.....	0. 05	84. 53	15. 42
1911.....	1, 406, 442	.....	0. 25	82. 26	17. 49
1912.....	1, 417, 545	.....	.....	75. 22	24. 78
1913.....	1, 330, 788	.....	.....	76. 52	23. 48

Table 44 shows the disposition of the shipping mines by counties and districts and of the local mines by districts.

TABLE 44—DISPOSITION OF OUTPUT OF SHIPPING MINES BY COUNTIES AND DISTRICTS, ALSO LOCAL MINES, BY DISTRICTS

County	Number of mines	Total tons	Disposition of tonnage			
			Shipped from mines	Supplied to locomotives at mines	Sold to local trade	Consumed or wasted at the mines
FIRST DISTRICT						
Grundy.....	5	411, 964	347, 189	.....	18, 438	46, 337
LaSalle.....	13	1, 382, 945	1, 124, 321	59, 097	99, 833	99, 694
Livingston.....	1	28, 875	5, 399	20, 500	1, 953	1, 023
Will.....	2	148, 741	132, 685	.....	9, 156	6, 900
The district.....	21	1, 972, 525	1, 609, 594	79, 597	129, 380	153, 954
Local mines.....	30	277, 681	.....	.....	101, 335	176, 346
SECOND DISTRICT						
Bureau.....	7	1, 784, 688	1, 623, 728	36, 230	33, 144	91, 586
Henry.....	1	4, 168	1, 035	.....	2, 800	333
Mercer.....	4	403, 466	384, 304	2, 065	3, 163	13, 934

TABLE 44—Continued

County	Number of mines	Total tons	Disposition of tonnage			
			Shipped from mines	Supplied to locomotives at mines	Sold to local trade	Consumed or wasted at the mines
Rock Island.....	1	9,268	8,000	.....	450	818
Stark.....	1	6,753	4,850	.....	1,503	400
The district.....	14	2,208,343	2,021,917	38,295	41,060	107,071
Local mines.....	85	183,973	.....	.....	178,642	5,331
THIRD DISTRICT						
Marshall.....	6	465,028	376,412	43,565	21,549	23,502
Menard.....	4	150,167	122,209	3,640	16,028	8,290
Peoria.....	14	1,133,854	1,107,392	716	3,967	21,779
Putnam.....	2	752,729	713,792	4,023	8,883	26,031
Tazewell.....	5	270,783	227,038	960	36,508	6,277
Woodford.....	2	179,495	150,186	7,147	11,469	10,693
The district.....	33	2,952,056	2,697,029	60,051	98,404	96,572
Local mines.....	61	157,231	.....	.....	141,310	15,921
FOURTH DISTRICT						
Fulton.....	19	2,397,374	2,285,728	33,917	14,934	62,795
The district.....	19	2,397,374	2,285,728	33,917	14,934	62,795
Local mines.....	172	177,821	.....	.....	174,862	2,959
FIFTH DISTRICT						
Christian.....	10	1,481,737	1,147,837	86,114	79,086	168,700
Macon.....	5	297,732	150,468	.....	55,279	73,985
Moultrie.....	1	105,280	97,565	.....	4,145	3,570
Shelby.....	2	195,569	164,553	.....	13,995	17,021
Vermilion.....	18	3,344,623	3,221,642	37,000	30,401	55,580
The district.....	36	5,406,941	4,782,065	123,114	182,906	318,856
Local mines.....	31	173,437	.....	.....	98,759	74,678
SIXTH DISTRICT						
Logan.....	4	411,003	300,498	31,491	49,578	29,436
McLean.....	2	93,236	2,731	35,705	43,284	11,516
Sangamon.....	29	5,704,942	5,339,515	10,370	172,514	185,543
The district.....	35	6,209,181	5,642,744	77,566	265,376	223,495
Local mines.....	5	84,504	.....	.....	75,534	8,970
SEVENTH DISTRICT						
Macoupin.....	12	5,202,014	4,800,175	72,004	104,314	225,521
Montgomery.....	10	2,418,329	2,312,509	.....	41,969	63,851
The district.....	22	7,620,343	7,112,684	72,004	146,283	289,372
Local mines.....	5	11,913	.....	.....	11,513	400
EIGHTH DISTRICT						
Bond.....	2	231,999	220,503	.....	3,924	7,572
Clinton.....	5	1,036,303	924,234	54,087	13,514	44,468
Madison.....	16	3,832,952	3,673,640	10,182	52,472	96,658
Marion.....	6	1,188,551	1,010,529	97,311	39,133	41,578
The district.....	29	6,289,805	5,828,906	161,580	109,043	190,276
Local mines.....	11	57,687	.....	.....	39,953	17,734
NINTH DISTRICT						
St. Clair.....	50	4,637,552	4,234,581	101,271	115,329	186,371
The district.....	50	4,637,552	4,234,581	101,271	115,329	186,371
Local mines.....	15	102,660	.....	.....	97,218	5,442
TENTH DISTRICT						
Jackson.....	8	702,985	566,371	40,169	41,085	55,360
Jefferson.....	1	35,619	24,689	1,500	7,605	1,825
Perry.....	18	1,634,214	1,477,141	82,914	25,115	49,044
Randolph.....	10	699,983	680,042	.....	5,476	14,465
Washington.....	3	244,582	218,089	3,829	15,189	7,475
The district.....	40	3,317,383	2,966,332	128,412	94,470	128,169
Local mines.....	25	47,793	.....	.....	45,260	2,533

TABLE 44—*Concluded*

Districts	Number of mines	Total tons	Disposition of tonnage			
			Shipped from mines	Supplied to locomotives at mines	Sold to local trade	Consumed and wasted at mines
ELEVENTH DISTRICT						
Franklin.....	16	5, 232, 526	5, 043, 448	2, 146	38, 267	148, 665
Gallatin.....	3	68, 739	62, 801	3, 802	1, 816	320
Saline.....	17	4, 498, 213	4, 348, 774	22, 695	36, 528	90, 216
White.....	1	19, 246	9, 358	.....	7, 481	2, 407
The district.....	37	9, 818, 724	9, 464, 381	28, 643	84, 092	241, 608
Local mines.....	16	31, 083	.....	.....	29, 748	1, 335
TWELFTH DISTRICT						
Williamson.....	35	7, 685, 189	7, 326, 413	120	45, 592	313, 064
The district.....	35	7, 685, 189	7, 326, 413	120	45, 592	313, 064
Local mines.....	13	25, 005	.....	.....	24, 130	875

## RAILROADS

Table 45. This table gives a list of forty railroads which have hauled the coal to market. The number of tons used by the locomotives, the counties served by each road and the per cent contributed by each is also given.

TABLE 45—RAILROADS WHICH HAVE TRANSPORTED THE COAL PRODUCED BY THE SHIPPING MINES OF THE STATE, THE COUNTIES CONTRIBUTING THE TONNAGE TO EACH ROAD, AND PERCENTAGES

Number	Railroads and counties	Number of counties	Number of mines	Tons received by each road for—		Percentage—	
				Shipment	Locomotives	Shipped	Supplied to locomotives
1	The State.....	41	371	55, 972, 374	904, 570	100. 00	100. 00
	Illinois Central.....	21	105	8, 271, 766	378, 130	100. 00	100. 00
	Williamson.....	17	5	2, 458, 554	-----	29. 72	-----
	Perry.....	13	7	1, 087, 971	76, 191	13. 15	20. 15
	Franklin.....	7	5	800, 393	1, 541	9. 69	0. 41
	Sangamon.....	7	5	623, 518	-----	7. 54	-----
	Marion.....	5	5	570, 685	97, 311	6. 90	25. 73
	St. Clair.....	19	5	529, 773	30, 081	6. 40	7. 96
	Jackson.....	5	4	411, 863	40, 169	4. 99	10. 62
	Madison.....	2	2	408, 783	317	4. 94	0. 08
	Christian.....	5	1	281, 582	25, 794	3. 40	6. 82
	Macoupin.....	1	4	247, 811	20, 668	2. 99	5. 47
	Logan.....	4	4	179, 385	31, 491	2. 17	8. 33
	Randolph.....	4	4	174, 875	-----	2. 11	-----
	Washington.....	2	2	156, 573	-----	1. 89	-----
	LaSalle.....	4	1	143, 378	46, 142	1. 73	12. 20
	Marshall.....	1	1	60, 943	-----	0. 74	-----
	Woodford.....	1	1	37, 351	-----	0. 45	-----
	Shelby.....	1	2	35, 544	-----	0. 43	-----
	Macon.....	2	1	33, 504	-----	0. 41	-----
	Montgomery.....	2	1	20, 615	-----	0. 25	-----
	Saline.....	1	2	6, 000	-----	0. 07	-----
	McLean.....	2	2	2, 405	8, 425	0. 03	2. 23



TABLE 45—Continued

Number	Railroads and counties	Number of counties	Number of mines	Tons received by each road for—		Percentage—	
				Shipment	Locomotives	Shipped	Supplied to locomotives
2	Chicago, Burlington & Quincy .....	14	55	8,236,834	20,319	100.00	100.00
	Franklin .....		9	2,760,574	605	33.51	2.98
	Fulton .....		16	1,939,373	19,714	23.54	97.02
	Williamson .....		10	1,416,103		17.20	
	Macoupin .....		3	794,160		9.64	
	Marion .....		2	354,144		4.30	
	Sangamon .....		1	321,745		3.91	
	LaSalle .....		4	314,085		3.81	
	Peoria .....		4	219,676		2.67	
	Bond .....		1	58,679		0.71	
	Washington .....		1	41,516		0.51	
	Bureau .....		1	6,064		0.07	
	Stark .....		1	4,850		0.06	
	Montgomery .....		1	4,825		0.06	
	Henry .....		1	1,035		0.01	
3	Chicago & Eastern Illinois .....	7	29	6,457,318	5,304	100.00	100.00
	Vermilion .....		7	2,719,723		42.12	
	Williamson .....		7	1,147,420		17.77	
	Montgomery .....		5	1,067,400		16.53	
	Franklin .....		6	1,017,478		15.76	
	Madison .....		1	419,179		6.49	
	Christian .....		2	65,629	5,304	1.01	100.00
	Jefferson .....		1	20,489		0.32	
4	Cleveland, Cincinnati, Chi. St. Louis.	10	39	5,805,672	62,494	100.00	100.00
	Saline .....		16	4,297,105	22,695	74.02	36.31
	Montgomery .....		6	624,288		10.76	
	Madison .....		1	419,180		7.22	
	Vermilion .....		7	310,607	37,000	5.34	59.21
	Tazewell .....		2	76,324		1.31	
	Shelby .....		1	64,505		1.11	
	Christian .....		3	11,996	2,424	0.21	3.88
	White .....		1	1,485		0.03	
	LaSalle .....		1	100			
	McLean .....		1	82	375		0.60
5	Wabash .....	9	27	3,690,376	72,901	100.00	100.00
	Sangamon .....		9	1,242,787		33.68	
	Macoupin .....		3	1,126,185	48,791	30.52	66.93
	Christian .....		3	701,930	23,030	19.02	31.59
	Madison .....		4	313,223	1,080	8.49	1.48
	Vermilion .....		2	131,457		3.56	
	Macon .....		3	86,839		2.35	
	Moultrie .....		1	84,174		2.28	
	Montgomery .....		1	3,481		0.09	
	LaSalle .....		1	300		0.01	
6	St. Louis, Iron Mountain & So. ....	3	25	2,778,035	120	100.00	100.00
	Williamson .....		19	2,240,240	120	80.64	100.00
	Franklin .....		4	465,003		16.74	
	Jackson .....		2	72,792		2.62	
7	Chicago & Alton .....	9	35	2,534,467	8,259	100.00	100.00
	Sangamon .....		16	1,795,548		70.85	
	Macoupin .....		5	338,666	2,545	13.36	30.81
	Logan .....		2	121,113		4.78	
	Marshall .....		2	84,520	2,074	3.33	25.11
	LaSalle .....		2	76,787		3.03	
	Will .....		1	60,240		2.38	
	Menard .....		3	53,759	3,640	2.12	44.08
	Grundy .....		3	3,754		0.15	
	McLean .....		1	80			
8	Macoupin County Railway .....	1	3	2,293,353		100.00	
	Macoupin .....		3	2,293,353		100.00	



TABLE 45—Continued

Number	Railroads and counties	Number of counties	Number of mines	Tons received by each road for—		Percentage—	
				Shipment	Locomotives	Shipped	Supplied to locomotives
9	Chicago, Milwaukee & St. Paul .....	3	6	1,573,824	26,203	100.00	100.00
	Putnam.....		2	713,792	4,023	45.36	15.35
	Bureau.....		2	485,123	21,263	30.82	81.15
	LaSalle.....		2	374,909	917	23.82	3.50
10	Baltimore & Ohio Southwestern .....	7	21	1,181,510	83,753	100.00	100.00
	Clinton.....		4	583,704	54,058	49.40	64.54
	St. Clair.....		5	231,831	137	19.62	0.16
	Sangamon.....		4	191,983		16.25	
	Marion.....		2	85,700		7.25	
	Shelby.....		1	64,504		5.46	
	Christian.....		4	15,915	29,558	1.35	35.30
	White.....		1	7,873		0.67	
11	Vandalia Line.....	5	8	1,164,716		100.00	
	St. Clair.....	1	1	541,586		46.49	
	Madison.....		3	452,216		38.83	
	Bond.....		1	132,486		11.38	
	Macon.....		2	25,037		2.15	
	Moultrie.....		1	13,391		1.15	
12	Southern.....	3	8	1,066,610	827	100.00	100.00
	St. Clair.....		6	725,880	798	68.05	96.49
	Clinton.....		1	340,530	29	31.93	3.51
	Jefferson.....		1	200		0.02	
13	Chicago & Northwestern.....	1	5	991,472	14,967	100.00	100.00
	Bureau.....		5	991,472	14,967	100.00	100.00
14	St. Louis & O'Fallon.....	1	2	848,704	5,141	100.00	100.00
	St. Clair.....		2	848,704	5,141	100.00	100.00
15	St. Louis, Troy & Eastern.....	1	3	824,751	1,092	100.00	100.00
	Madison.....		3	824,751	1,092	100.00	100.00
16	Mobile & Ohio.....	4	8	802,223		100.00	
	Perry.....		2	357,874		44.61	
	Randolph.....		3	347,433		43.31	
	Jackson.....		2	81,716		10.19	
	St. Clair.....		1	15,200		1.89	
17	Litchfield & Madison.....	1	5	746,173	6,233	100.00	100.00
	Madison.....		5	746,173	6,233	100.00	100.00
18	East St. Louis & Suburban.....	1	4	725,705	1,900	100.00	100.00
	St. Clair.....		4	725,705	1,900	100.00	100.00
19	Toledo, St. Louis & Western.....	3	4	628,010		100.00	
	Montgomery.....		2	591,900		94.25	
	Bond.....		1	29,338		4.67	
	Madison.....		1	6,772		1.08	
20	Louisville & Nashville.....	5	20	612,243	72,345	100.00	100.00
	St. Clair.....		12	479,773	63,214	78.36	87.38
	Gallatin.....		3	62,801	3,802	10.26	5.26
	Saline.....		3	45,669		7.46	
	Washington.....		1	20,000	3,829	3.27	5.29
	Jefferson.....		1	4,000	1,500	0.65	2.07

TABLE 45—Continued

Number	Railroads and counties	Number of counties	Number of mines	Tons received by each road or—		Percentage—	
				Shipment	Locomotives	Shipped	Supplied to locomotives
21	Chicago & Illinois Midland.....	2	2	540, 299	5, 626	100.00	100.00
	Sangamon.....		1	469, 514	5, 622	86.90	99.93
	Christian.....		1	70, 785	4	13.10	0.07
22	Minneapolis & St. Paul.....	2	5	530, 122		100.00	
	Peoria.....		2	307, 457		57.92	
	Fulton.....		3	222, 665		42.08	
23	Chicago, Peoria & St. Louis.....	2	11	486, 002	2, 948	100.00	100.00
	Sangamon.....		9	417, 552	2, 948	85.92	100.00
	Menard.....		2	68, 450		14.08	
24	Atchison, Topeka & Santa Fé.....	5	10	425, 946	49, 598	100.00	100.00
	Marshall.....		1	178, 558	41, 491	41.92	83.65
	Woodford.....		2	112, 835	7, 147	26.49	14.41
	Tazewell.....		2	83, 509	960	19.61	1.94
	LaSalle.....		2	45, 355		10.64	
	Grundy.....		3	5, 689		1.34	
25	Chicago, Rock Island & Pacific.....	5	11	415, 112	14, 103	100.00	100.00
	Bureau.....		1	141, 069		33.98	
	LaSalle.....		4	107, 407	12, 038	25.87	85.36
	Mercer.....		1	106, 245	2, 065	25.60	14.64
	Marshall.....		4	52, 391		12.62	
	Rock Island.....		1	8, 000		1.93	
26	Elgin, Joliet & Eastern.....	2	6	410, 191		100.00	
	Grundy.....		5	337, 746		82.34	
	Will.....		1	72, 445		17.66	
27	Peoria & Pekin Union.....	2	5	336, 399		100.00	
	Peoria.....		4	282, 015		83.83	
	Tazewell.....		1	54, 384		16.17	
28	Rock Island & Southern.....	1	3	278, 059		100.00	
	Mercer.....		3	278, 059		100.00	
29	Illinois Traction System.....	3	7	267, 320		100.00	
	Sangamon.....		3	135, 360		54.64	
	Madison.....		1	72, 105		26.97	
	Vermilion.....		3	59, 855		22.39	
30	Toledo, Peoria & Western.....	3	4	243, 857	34, 703	100.00	100.00
	Fulton.....		1	123, 685	14, 203	50.72	40.97
	Peoria.....		2	114, 773		47.07	
	Livingston.....		1	5, 399	20, 500	2.21	59.03
31	Illinois Southern.....	1	3	157, 734		100.00	
	Randolph.....		3	157, 734		100.00	
32	Peoria Railway Terminal.....	1	3	151, 222	716	100.00	100.00
	Peoria.....		3	151, 222	716	100.00	100.00
33	Cincinnati, Hamilton & Dayton.....	2	7	146, 296	1, 800	100.00	100.00
	Sangamon.....		5	141, 508	1, 800	96.73	100.00
	Macon.....		2	4, 788		3.27	
34	St. Louis & Belleville.....	1	1	136, 169		100.00	
	St. Clair.....		1	136, 169		100.00	

TABLE 45—*Concluded*

Number	Railroads and counties	Number of counties	Number of mines	Tons received by each road for—		Percentage—	
				Shipment	Locomotives	Shipped	Supplied to locomotives
35	Chicago, Indiana & Southern.....	1	1	62,000	.....	100.00	.....
	LaSalle.....	.....	1	62,000	.....	100.00	.....
36	Eldorado, Marion & Southwestern ..	1	1	34,596	.....	100.00	.....
	Williamson.....	.....	1	34,596	.....	100.00	.....
37	Wabash, Chester & Western.....	1	3	31,296	6,723	100.00	100.00
	Perry.....	.....	3	31,296	6,723	100.00	100.00
38	Coal Belt.....	1	2	29,500	.....	100.00	.....
	Williamson.....	.....	2	29,500	.....	100.00	.....
39	Lake Erie & Western.....	2	2	12,985	26,905	100.00	100.00
	Tazewell.....	.....	1	12,821	.....	98.74	.....
	McLean.....	.....	1	164	26,905	1.26	100.00
40	Illinois Terminal.....	1	1	11,258	1,460	100.00	100.00
	Madison.....	.....	1	11,258	1,460	100.00	100.00
	By boats—Illinois River.....	1	2	32,249	.....	100.00	.....
	Peoria.....	.....	2	32,249	.....	100.00	.....

Table 46 gives the names of the railroads, the number of counties, and the number of mines served, the number of tons hauled, and the per cent hauled by each.

TABLE 46—RAILROADS TO WHICH THE COAL HAS BEEN DELIVERED FOR SHIPMENT AND FOR USE ON LOCOMOTIVES, THE NUMBER OF TONS TO EACH, AND THE PER CENT HAULED BY EACH ROAD

Number of railroads	Railroads	Number of counties	Number of mines	Tons received by each road for—		Per cent hauled by each road
				Shipment	Locomotives	
	Total—40 railroads and boats.....	41	371	55,972,374	904,5 0	100.00
1	Illinois Central.....	21	105	8,271,766	378,130	14.78
2	Chicago, Burlington & Quincy.....	14	55	8,236,834	20,319	14.72
3	Chicago & Eastern Illinois.....	7	29	6,457,318	5,304	11.54
4	Cleveland, Cincinnati, Chicago & St. Louis ..	10	39	5,805,672	62,494	10.37
5	Wabash.....	9	27	3,690,376	72,901	6.59
6	Sr. Louis, Iron Mountain & Southern.....	3	25	2,778,035	120	4.96
7	Chicago & Alton.....	9	35	2,534,467	8,259	4.53
8	Maccoupin County Ry.....	1	3	2,293,353	.....	4.10
9	Chicago, Milwaukee & St. Paul.....	3	6	1,573,824	26,203	2.81
10	Baltimore & Ohio Southwestern.....	7	21	1,181,510	83,753	2.11
11	Vandalia Line.....	5	8	1,164,716	.....	2.08
12	Southern.....	3	8	1,066,610	827	1.91
13	Chicago & Northwestern.....	1	5	991,472	14,967	1.77
14	St. Louis & O'Fallon.....	1	2	848,704	5,141	1.52
15	St. Louis, Troy & Eastern.....	1	3	824,751	1,092	1.47
16	Mobile & Ohio.....	4	8	802,223	.....	1.43
17	Litchfield & Madison.....	1	5	746,173	6,233	1.33

TABLE 46—*Concluded*

Number of railroads	Railroads	Number of counties	Number of mines	Tons received by each road for—		Per cent hailed by each road
				Shipment	Locomo- tives	
1	East St. Louis & Suburban.....	1	4	725,705	1,900	1.30
19	Toledo, St. Louis & Western.....	3	4	628,010	.....	1.12
20	Louisville & Nashville.....	5	20	612,243	72,345	1.09
21	Chicago & Illinois Midland.....	2	2	540,299	5,626	.97
22	Minneapolis & St. Paul.....	2	5	530,122	.....	.95
23	Chicago, Peoria & St. Louis.....	2	11	486,002	2,948	.87
24	Atchison, Topeka & Santa Fe.....	5	10	425,946	49,598	.76
25	Chicago, Rock Island & Pacific.....	5	11	415,112	14,103	.74
26	Elgin, Joliet & Eastern.....	2	6	410,191	.....	.73
27	Peoria, & Pekin Union.....	2	5	336,399	.....	.60
28	Rock Island & Southern.....	1	3	278,059	.....	.50
29	Illinois Traction System.....	3	7	267,320	.....	.48
30	Toledo, Peoria & Western.....	3	4	243,857	34,703	.44
31	Illinois Southern.....	1	3	157,734	.....	.28
32	Peoria Ry. Terminal.....	1	3	151,222	716	.27
33	Cincinnati, Hamilton & Dayton.....	2	7	146,296	1,800	.26
34	St. Louis & Belleville.....	1	1	136,169	.....	.24
35	Chicago, Indiana & Southern.....	1	1	62,000	.....	.11
36	Eldorado, Marion & Southwestern.....	1	1	34,596	.....	.06
37	Wabash, Chester & Western.....	1	3	31,296	6,723	.06
38	Coal Belt.....	1	2	29,500	.....	.05
39	Lake Erie & Western.....	2	2	12,985	26,905	.02
40	Illinois Terminal.....	1	1	11,258	1,460	.02
	By boat—Illinois River.....	1	2	32,249	.....	.06

Table 47 is a list of the forty-one counties which supplied the commercial coal, arranged according to tons shipped, and shows the name and number of railroads, the number of mines supplying, the number of tons hauled and the per cent carried by each road.

TABLE 47—COUNTIES WHICH HAVE PRODUCED THE COMMERCIAL COAL OF THE STATE, THE TONNAGE DELIVERED TO THE SEVERAL RAILROADS IN EACH FOR TRANSPORTATION AND THE PER CENT HAILED BY EACH ROAD

No.	Counties and railroads	Number of—		Tons delivered to each railroad for shipment	Per cent carried by each road
		Rail- roads	Mines		
1	Williamson.....	6	35	7,326,413	100.00
	Illinois Central.....	.....	17	2,458,554	33.56
	St. Louis, Iron Mountain & Southern.....	.....	19	2,240,240	30.58
	Chicago, Burlington & Quincy.....	.....	10	1,416,103	19.33
	Chicago & Eastern Illinois.....	.....	7	1,147,420	15.66
	Eldorado, Marion & Southwestern.....	.....	1	34,596	0.47
	Coal Belt.....	.....	2	29,500	0.40
2	Sangamon.....	9	29	5,339,515	100.00
	Chicago & Alton.....	.....	16	1,795,548	33.63
	Wabash.....	.....	9	1,242,787	23.28
	Illinois Central.....	.....	7	623,518	11.68
	Chicago & Illinois Midland.....	.....	1	469,514	8.79
	Chicago, Peoria & St. Louis.....	.....	9	417,552	7.82
	Chicago, Burlington & Quincy.....	.....	1	321,745	6.03
	Baltimore & Ohio Southwestern.....	.....	4	191,983	3.59
	Cincinnati, Hamilton & Dayton.....	.....	5	141,508	2.65
	Illinois Traction System.....	.....	3	135,360	2.53

TABLE 47—Continued

No.	Counties and railroads	Number of—		Tons delivered to each railroad or shipment	Per cent carried by each road
		Railroads	Mines		
3	Franklin.....	4	16	5,043,448	100.00
	Chicago, Burlington & Quincy.....		9	2,760,574	54.74
	Chicago & Eastern Illinois.....		6	1,017,478	20.17
	Illinois Central.....		7	800,393	15.87
	St. Louis, Iron Mountain & Southern.....		4	465,003	9.22
4	Macoupin.....	5	12	4,800,175	100.00
	Macoupin County Ry.....		3	2,293,353	47.78
	Wabash.....		3	1,126,185	23.46
	Chicago, Burlington & Quincy.....		3	794,160	16.54
	Chicago & Alton.....		5	333,666	7.06
	Illinois Central.....		1	247,811	5.16
5	Saline.....	3	17	4,348,774	100.00
	Cleveland, Cincinnati, Chicago & St. Louis.....		16	4,297,105	98.81
	Louisville & Nashville.....		3	45,669	1.05
	Illinois Central.....		1	6,000	0.14
6	St. Clair.....	9	50	4,234,581	100.00
	St. Louis & O'Fallon.....		2	848,704	20.04
	Southern.....		6	725,880	17.14
	East St. Louis & Suburban.....		4	725,705	17.14
	Vandalia.....		1	541,586	12.79
	Illinois Central.....		19	529,733	12.51
	Louisville & Nashville.....		12	479,773	11.33
	Baltimore & Ohio Southwestern.....		5	231,831	5.47
	St. Louis & Belleville (Electric).....		1	136,169	3.22
	Mobile & Ohio.....		1	15,200	0.36
7	Madison.....	10	16	3,673,640	100.00
	St. Louis, Troy & Eastern.....		3	824,751	22.45
	Litchfield & Madison.....		5	746,173	20.31
	Vandalia Line.....		3	452,216	12.31
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	419,180	11.41
	Chicago & Eastern Illinois.....		1	419,179	11.41
	Illinois Central.....		2	408,783	11.13
	Wabash.....		4	313,223	8.53
	Illinois Traction System.....		1	72,105	1.96
	Illinois Terminal.....		1	11,258	0.31
	Toledo, St. Louis & Western.....		1	6,772	0.18
8	Vermilion.....	4	18	3,221,642	100.00
	Chicago & Eastern Illinois.....		7	2,719,723	84.42
	Cleveland, Cincinnati, Chicago & St. Louis.....		7	310,607	9.64
	Wabash.....		2	131,457	4.08
	Illinois Traction System.....		3	59,855	1.86
9	Montgomery.....	6	10	2,312,509	100.00
	Chicago & Eastern Illinois.....		5	1,067,400	46.16
	Cleveland, Cincinnati, Chicago & St. Louis.....		6	624,288	27.00
	Toledo, St. Louis & Western.....		2	591,900	25.59
	Illinois Central.....		2	20,615	0.89
	Chicago, Burlington & Quincy.....		1	4,825	0.21
	Wabash.....		1	3,481	0.15
10	Fulton.....	3	19	2,285,728	100.00
	Chicago, Burlington & Quincy.....		16	1,939,378	84.85
	Minneapolis & St. Louis.....		3	222,665	9.74
	Toledo, Peoria & Western.....		1	123,685	5.41
11	Bureau.....	4	7	1,623,728	100.00
	Chicago & Northwestern.....		5	991,472	61.06
	Chicago, Milwaukee & St. Paul.....		2	485,123	29.88
	Chicago, Rock Island & Pacific.....		1	141,069	8.69
	Chicago, Burlington & Quincy.....		1	6,064	0.37

TABLE 47—*Continued*

No.	Counties and railroads	Number of—		Tons delivered to each railroad for shipment	Per cent carried by each road
		Railroads	Mines		
12	Perry.....	3	18	1,477,141	100.00
	Illinois Central.....		13	1,087,971	73.65
	Mobile & Ohio.....		2	357,874	24.23
	Wabash, Chester & Western.....		3	31,296	2.12
13	Christian.....	6	10	1,147,837	100.00
	Wabash.....		3	701,930	61.15
	Illinois Central.....		5	281,582	24.53
	Chicago & Illinois Midland.....		1	70,785	6.17
	Chicago & Eastern Illinois.....		2	65,629	5.72
	Baltimore & Ohio Southwestern.....		4	15,915	1.39
	Cleveland, Cincinnati, Chicago & St. Louis.....		3	11,996	1.04
14	LaSalle.....	9	13	1,124,321	100.00
	Chicago, Milwaukee & St. Paul.....		2	374,909	33.35
	Chicago, Burlington & Quincy.....		4	314,085	27.94
	Illinois Central.....		4	143,378	12.75
	Chicago, Rock Island & Pacific.....		4	107,407	9.55
	Chicago & Alton.....		2	76,787	6.83
	Chicago, Indiana & Southern.....		1	62,000	5.51
	Atchison, Topeka & Santa Fé.....		2	45,355	4.03
	Wabash.....		1	300	0.03
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	100	0.01
15	Peoria.....	5	14	1,075,143	100.00
	Minneapolis & St. Louis.....		2	307,457	28.60
	Peoria & Pekin Union.....		4	282,015	26.23
	Chicago, Burlington & Quincy.....		4	219,676	20.43
	Peoria Ry. Terminal.....		3	151,222	14.07
	Toledo, Peoria & Western.....		2	114,773	10.67
16	Marion.....	3	6	1,010,529	100.00
	Illinois Central.....		5	570,685	56.47
	Chicago, Burlington & Quincy.....		2	354,144	35.05
	Baltimore & Ohio Southwestern.....		2	85,700	8.48
17	Clinton.....	2	5	924,234	100.00
	Baltimore & Ohio Southwestern.....		4	583,704	63.16
	Southern.....		1	340,530	36.84
18	Putnam.....	1	2	713,792	100.00
	Chicago, Milwaukee & St. Paul.....		2	713,792	100.00
19	Randolph.....	3	10	680,042	100.00
	Mobile & Ohio.....		3	347,433	51.09
	Illinois Central.....		4	174,875	25.72
	Illinois Southern.....		3	157,734	23.19
20	Jackson.....	3	8	566,371	100.00
	Illinois Central.....		5	411,863	72.72
	Mobile & Ohio.....		2	81,716	14.43
	St. Louis, Iron Mountain & Southern.....		2	72,792	12.85
21	Mercer.....	2	4	384,304	100.00
	Rock Island & Southern.....		3	278,059	72.35
	Chicago, Rock Island & Pacific.....		1	106,245	27.65
22	Marshall.....	4	6	376,412	100.00
	Atchison, Topeka & Santa Fé.....		1	178,558	47.44
	Chicago & Alton.....		2	84,530	22.45
	Illinois Central.....		1	60,943	16.19
	Chicago, Rock Island & Pacific.....		4	52,391	13.92



TABLE 47—Continued

No.	Counties and railroads	Number of—		Tons delivered to each railroad for shipment	Per cent carried by each road
		Rail-roads	Mines		
23	Grundy.....	3	5	347, 189	100. 00
	Elgin, Joliet & Eastern.....		5	337, 746	97. 28
	Atchison, Topeka & Santa Fé.....		3	5, 689	1. 64
	Chicago & Alton.....		3	3, 754	1. 08
24	Logan.....	2	4	300, 498	100. 00
	Illinois Central.....		4	179, 385	59. 70
	Chicago & Alton.....		2	121, 113	40. 30
25	Tazewell.....	4	5	227, 038	100. 00
	Atchison, Topeka & Santa Fé.....		2	83, 509	36. 78
	Cleveland, Cincinnati, Chicago & St. Louis.....		2	76, 324	33. 62
	Peoria & Pekin Union.....		1	54, 384	23. 95
	Lake Erie & Western.....		1	12, 821	5. 65
26	Bond.....	3	2	220, 503	100. 00
	Vandalia Line.....		1	132, 486	60. 08
	Chicago, Burlington & Quincy.....		1	58, 679	26. 61
	Toledo, St. Louis & Western.....		1	29, 338	13. 31
27	Washington.....	3	3	218, 089	100. 00
	Illinois Central.....		2	156, 573	71. 79
	Chicago, Burlington & Quincy.....		1	41, 516	19. 04
	Louisville & Nashville.....		1	20, 000	9. 17
28	Shelby.....	3	2	164, 553	100. 00
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	64, 505	39. 20
	Baltimore & Ohio Southwestern.....		1	64, 504	39. 20
	Illinois Central.....		1	35, 544	21. 60
29	Macon.....	4	5	150, 468	100. 00
	Wabash.....		3	86, 839	57. 71
	Illinois Central.....		2	33, 804	22. 47
	Vandalia Line.....		2	25, 037	16. 64
	Cincinnati, Hamilton & Dayton.....		2	4, 788	3. 18
30	Woodford.....	2	2	150, 186	100. 00
	Atchison, Topeka & Santa Fé.....		2	112, 835	75. 13
	Illinois Central.....		1	37, 351	24. 87
31	Will.....	2	2	132, 685	100. 00
	Elgin, Joliet & Eastern.....		1	72, 445	54. 60
	Chicago & Alton.....		1	60, 240	45. 40
32	Menard.....	2	4	122, 209	100. 00
	Chicago, Peoria & St. Louis.....		2	68, 450	56. 01
	Chicago & Alton.....		3	53, 759	43. 99
33	Moultrie.....	2	1	97, 565	100. 00
	Wabash.....		1	84, 174	86. 27
	Vandalia Line.....		1	13, 391	13. 73
34	Gallatin.....	1	3	62, 801	100. 00
	Louisville & Nashville.....		3	62, 801	100. 00
35	Jefferson.....	3	1	24, 689	100. 00
	Chicago & Eastern Illinois.....		1	20, 489	82. 99
	Louisville & Nashville.....		1	4, 000	16. 20
	Southern.....		1	200	0. 81



TABLE 47—*Concluded*

No.	Counties and railroads	Number of—		Tons delivered to each railroad for shipment	Per cent carried by each road
		Rail-roads	Mines		
36	White.....	2	1	9,358	100.00
	Baltimore & Ohio Southwestern.....		1	7,873	84.13
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	1,485	15.87
37	Rock Island.....	1	1	8,000	100.00
	Chicago, Rock Island & Pacific.....		1	8,000	100.00
38	Livingston.....	1	1	5,399	100.00
	Toledo, Peoria & Western.....		1	5,399	100.00
39	Stark.....	1	1	4,850	100.00
	Chicago, Burlington & Quincy.....		1	4,850	100.00
40	McLean.....	4	2	2,731	100.00
	Illinois Central.....		2	2,405	88.07
	Lake Erie & Western.....		1	164	6.00
	Cleveland, Cincinnati, Chicago & St. Louis.....		1	82	3.00
	Chicago & Alton.....		1	80	2.93
41	Henry.....	1	1	1,035	100.00
	Chicago, Burlington & Quincy.....		1	1,035	100.00
	Peoria—by boat—Illinois River.....		2	32,249	.....
	The State.....	40	371	55,972,374	.....

Table 48 shows the counties from which coal was shipped, the number of mines served, the number of railroads and the total tons shipped and used on locomotives. The per cent furnished by each county of the tonnage shipped, the total product of each county and the per cent of the total product shipped is also shown.

TABLE 48—COUNTIES FURNISHING THE COMMERCIAL COAL, NUMBER OF SHIPPING MINES, NUMBER OF RAILROADS, TONS DELIVERED FOR SHIPMENT AND FOR USE ON LOCOMOTIVES AND THE PER CENT OF THE TOTAL TONS SHIPPED FURNISHED BY EACH COUNTY; ALSO, TOTAL PRODUCT AND THE PER CENT SHIPPED

Number	Counties	Number of—		Tons delivered to railroads for—		Per cent furnished by each county for shipment	Total product—tons	Per cent of total product shipped by each county
		Mines	Rail-roads	Shipment	Locomotives			
	Total.....	371	40	*55,972,374	904,570	100.00	60,515,416	92.44
1	Williamson.....	35	6	7,326,413	120	13.09	7,685,189	95.33
2	Sangamon.....	29	9	5,339,515	10,370	9.54	5,704,942	93.59
3	Franklin.....	16	4	5,043,448	2,146	9.01	5,232,526	96.39
4	Macoupin.....	12	5	4,800,175	72,004	8.58	5,202,014	92.27
5	Saline.....	17	3	4,348,774	22,695	7.77	4,498,213	96.68
6	St. Clair.....	50	9	4,234,581	101,271	7.56	4,637,552	91.31
7	Madison.....	16	10	3,673,640	10,182	6.56	3,832,952	95.84
8	Vermilion.....	18	4	3,221,642	37,000	5.76	3,344,623	96.32

TABLE 48—*Concluded*

Number	Counties	Number of—		Tons delivered to railroads for—		Per cent furnished by each county for shipment	Total prod- uct—tons	Per cent of total product shipped by each county
		Mines	Rail- roads	Shipment	Locomo- tives			
9	Montgomery.....	10	6	2,312,509	.....	4.13	2,418,329	95.62
10	Fulton.....	19	3	2,285,728	33,917	4.08	2,397,374	95.34
11	Bureau.....	7	4	1,623,728	36,230	2.90	1,784,688	90.98
12	Perry.....	18	3	1,477,141	82,914	2.65	1,634,214	90.39
13	Christian.....	10	6	1,147,837	86,114	2.05	1,481,737	77.49
14	LaSalle.....	13	9	1,124,321	59,097	2.01	1,382,945	81.30
15	Peoria.....	14	5	1,075,143	716	1.92	1,133,854	97.67
16	Marion.....	6	3	1,010,529	97,311	1.81	1,188,551	85.02
17	Clinton.....	5	2	924,234	54,087	1.65	1,036,303	89.19
18	Putnam.....	2	1	713,792	4,023	1.27	752,729	94.83
19	Randolph.....	10	3	680,042	.....	1.21	699,983	97.15
20	Jackson.....	8	3	566,371	40,169	1.01	702,985	80.57
21	Mercer.....	4	2	384,304	2,065	0.69	403,466	95.25
22	Marshall.....	6	4	376,412	43,565	0.67	465,028	80.94
23	Grundy.....	5	3	347,189	.....	0.62	411,964	84.28
24	Logan.....	4	2	300,498	31,491	0.54	411,003	73.11
25	Tazewell.....	5	4	227,038	960	0.41	270,783	80.15
26	Bond.....	2	3	220,503	.....	0.39	231,999	95.04
27	Washington.....	3	3	218,089	3,829	0.39	244,582	89.17
28	Shelby.....	2	3	164,553	.....	0.29	195,569	84.14
29	Macon.....	5	4	150,468	.....	0.29	279,732	53.43
30	Woodford.....	2	2	150,186	7,147	0.27	179,495	83.67
31	Will.....	2	2	132,685	.....	0.24	148,741	89.21
32	Menard.....	4	2	122,209	3,640	0.22	150,167	81.38
33	Moultrie.....	1	2	97,565	.....	0.17	105,280	92.67
34	Gallatin.....	3	1	62,801	3,802	0.11	68,739	91.36
35	Jefferson.....	1	3	24,689	1,500	0.04	35,619	69.31
36	White.....	1	2	9,358	.....	0.02	19,246	48.62
37	Rock Island.....	1	1	8,000	.....	0.01	9,268	86.32
38	Livingston.....	1	1	5,399	20,500	0.01	28,875	18.70
39	Stark.....	1	1	4,850	.....	0.01	6,753	71.82
40	McLean.....	2	4	2,731	35,705	0.01	93,236	2.93
41	Henry.....	1	1	1,035	.....	.....	4,168	24.83
	Peoria—by boat.....	2	.....	32,249	.....	0.06	.....	.....

\* Including shipment by boat.

## HAULAGE

Table 49 shows the methods of underground haulage in the shipping mines of the State for 1913 and for the six preceding years.

TABLE 49—HAULAGE OF COAL IN SHIPPING MINES OF THE STATE BY DISTRICTS

Districts	Number of mines	Motor		Cable		Mule		Hand	
		No.	Tons	No. of mines	Tons	No. of mines	Tons	No. of mines	Tons
First.....	1	1	204,222	1	132,199	19	1,636,104	.....	.....
Second.....	1	1	124,444	4	434,631	9	1,649,268	.....	.....
Third.....	11	25	1,361,760	1	12,016	21	1,578,280	.....	.....
Fourth.....	8	14	1,430,785	1	56,434	10	910,155	.....	.....
Fifth <sup>1</sup> .....	17	40	4,306,384	.....	.....	16	997,759	.....	.....
Sixth.....	19	37	4,618,808	3	286,991	13	1,303,382	.....	.....
Seventh.....	17	59	7,215,781	.....	.....	5	404,562	.....	.....
Eighth.....	21	54	5,739,252	.....	.....	8	550,553	.....	.....
Ninth <sup>2</sup> .....	21	30	2,935,136	1	63,853	27	1,623,363	.....	.....
Tenth.....	16	39	2,240,899	1	148,727	23	927,757	.....	.....
Eleventh.....	29	115	9,451,009	1	38,677	7	329,038	.....	.....
Twelfth <sup>3</sup> .....	24	52	6,566,257	.....	.....	10	1,103,932	.....	.....

TABLE 49—*Concluded*

Districts	Number of mines	Motor		Cable		Mule		Hand	
		No.	Tons	No. of mines	Tons	No. of mines	Tons	No. of mines	Tons
The State, 1913.....	185	467	46, 194, 737	13	1, 173, 528	168	13, 014, 153	.....	.....
The State, 1912.....	165	381	37, 958, 050	4	400, 970	210	17, 707, 993	1	29, 682
The State, 1911.....	137	303	29, 310, 173	24	2, 321, 016	219	16, 839, 883	7	287, 585
The State, 1910.....	106	229	23, 204, 480	25	2, 508, 343	251	21, 243, 637	8	268, 741
The State, 1909.....	96	210	21, 892, 462	16	1, 396, 154	268	24, 645, 398	4	24, 548
The State, 1908.....	88	185	19, 024, 665	32	3, 273, 753	283	25, 482, 634	4	28, 678
The State, 1907.....	75	129	16, 542, 575	25	2, 864, 241	303	26, 689, 533	5	46, 865

<sup>1</sup> Three strip mines, 102,798 tons.<sup>2</sup> One strip mine, 15,200 tons.<sup>3</sup> One strip mine, 15,000 tons.

Table 50 is a list of the mines in which motors are used for underground haulage and gives the name and number of motors in use and the tons hauled.

TABLE 50—SHIPPING MINES, USING MOTOR HAULAGE, WITH NAME AND NUMBER OF MOTORS IN USE, KIND IN USE AND TONS HAULED—1913

Number	District and operator	Location	Motors		Tonnage
			Name	Kind	
	The State.....		467 motors.....		46, 294, 737
	First District—1 mine.....				
1	Oglesby Coal Co., No. 1.....	Oglesby.....	1 Goodman.....	Electric..	204, 222
	Second District—1 mine.....				
1	Alden Coal Co., No. 7.....	Mathersville.....	1 Whitcomb.....	Gasoline..	124, 444
	Third District—11 mines.....		25 motors.....		1, 361, 760
1	Toluca Coal Co., No. 1.....	Toluca.....	2 Goodman; 3 Westinghouse.....	Electric..	290, 523
2	Clark Coal & Coke Co., No. 2.....	Peoria.....	5 Goodman.....	do.....	249, 983
3	Wolschlag Co-operative C. Co.....	do.....	1 Goodman; 1 Jeffrey; 1 Westinghouse.....	do.....	164, 570
4	Crescent Coal Co., No. 1.....	do.....	1 Goodman; 1 General Electric.....	do.....	149, 153
5	Brewster & Evans Co., Walbur.....	do.....	1 General Electric.....	do.....	139, 893
6	Newsam Bros., No. 3.....	Kingston Mine.....	1 Goodman.....	do.....	94, 147
7	Peoria District Col. Co., No. 3.....	Bartonville.....	1 Morgan-Gardner; 1 Goodman.....	do.....	83, 613
8	Loran Coal Co., No. 1.....	Hanna City.....	3 Goodman.....	do.....	68, 000
9	Warsaw Coal Co.....	Eldorado.....	1 General Electric.....	do.....	42, 908
10	Olympia Coal Mining Co.....	Edwards.....	1 Jeffrey.....	do.....	24, 586
11	Groveland Coal Co., No. 1.....	Peoria.....	1 Westinghouse.....	do.....	54, 384
	Fourth District—8 mines.....		14 motors.....		1, 430, 785
1	Big Creek Coal Co., No. 2.....	St. David.....	2 Jeffrey; 1 Goodman.....	Electric..	265, 314
2	Maplewood Col. Co., No. 2.....	Farmington.....	1 Westinghouse; 1 Jeffrey.....	do.....	229, 742
3	Monmouth Coal M. Co., No. 1.....	Brereton.....	2 Goodman.....	do.....	215, 318
4	Big Creek Coal Co., No. 4.....	Dunfermline.....	2 Jeffrey; 1 Morgan-Gardner.....	do.....	188, 834
5	Canton Coal Mining Co.....	Canton.....	1 Morgan-Gardner.....	do.....	169, 474
6	Simmons Coal Co.....	do.....	1 Goodman.....	do.....	153, 655
7	Eagle Mining Co., Eagle.....	do.....	1 Milwaukee.....	Gasoline..	147, 188
8	Star Coal Co., No. 1.....	Cuba.....	1 Whitcomb.....	do.....	61, 260

TABLE 50—Continued

Number	District and operator	Location	Motors		Tonnage
			Name	Kind	
	Fifth District—17 mines.....		40 motors.....		4,306,384
1	Christian Co. Coal Co.....	Taylorville.....	2 Goodman.....	Electric..	341,112
2	Springfield Coal M. Co., No. 6.....	do.....	3 Goodman.....	do.....	240,247
3	Stonington Coal Co.....	do.....	2 Goodman.....	do.....	239,938
4	Penwell Coal Co.....	Pana.....	2 Goodman.....	do.....	197,627
5	Pana Coal Co., No. 1.....	do.....	2 Goodman.....	do.....	166,564
6	Smith-Lohr Coal M. Co.....	do.....	2 Jeffrey.....	do.....	100,303
7	Ill. Midland Coal Co., No. 7.....	Taylorville.....	4 General Electric.....	do.....	74,824
8	Assumption Coal & Mining Co.....	Assumption.....	1 Goodman.....	do.....	73,883
9	Pana Coal Co., No. 2.....	Pana.....	2 Goodman.....	do.....	38,156
10	Moweaqua C. M. & M. Co., No. 1.....	Moweaqua.....	1 Goodman.....	do.....	49,813
11	Bunsen Coal Co., Vermillion.....	Westville.....	4 Jeffrey.....	do.....	792,315
12	Bunsen Coal Co., No. 4.....	do.....	2 Goodman; 2 General Electric.....	do.....	669,307
13	Bunsen Coal Co., No. 2.....	do.....	2 Goodman.....	do.....	418,694
14	Bunsen Coal Co., No. 3.....	do.....	2 Jeffrey.....	do.....	386,310
15	Dering Coal Co., No. 2.....	do.....	2 Westinghouse; 1 Morgan-Gardner.....	do.....	208,143
16	Dering Coal Co., No. 4.....	Steelton.....	1 Whitcomb.....	Gasoline..	164,720
17	Dering Coal Co., No. 3.....	do.....	2 Morgan-Gardner; 1 Jeffrey.....	Electric..	144,428
	Sixth District—19 mines.....		37 motors.....		4,618,808
1	Latham Coal Co., N.....	Lincoln.....	4 Goodman.....	Electric..	197,690
2	Chl., Wilm. & V. C. Co., No. 1.....	Thayer.....	2 Goodman.....	do.....	551,787
3	Ill. Midland Coal Co., No. 5.....	Pawnee.....	2 General Electric.....	do.....	488,445
4	Madison Coal Corp., No. 6.....	Divernon.....	2 Goodman.....	do.....	403,284
5	Jones and Adams C. Co., Peerless.....	Springfield.....	3 Jeffrey.....	do.....	390,952
6	Springfield C. M. Co., No. 2.....	Riverton.....	2 Goodman.....	do.....	389,057
7	Black Diamond C. Co., B. D.....	Auburn.....	2 Jeffrey; 2 Goodman.....	do.....	368,907
8	Woodside Coal Co.....	Springfield.....	2 Jeffrey.....	do.....	333,566
9	Ill. Midland Coal Co., No. 6.....	Sherman.....	2 Whitcomb.....	Gasoline..	314,646
10	Springfield C. M. Co., No. 5.....	Springfield.....	2 Goodman.....	Electric..	259,768
11	Capitol Coal Co., No. 2.....	do.....	2 Goodman.....	do.....	175,266
12	West End Coal Co.....	do.....	1 Goodman; 1 Jeffrey.....	do.....	132,164
13	Dickerson Coal Co., Empire.....	do.....	1 Goodman.....	do.....	126,270
14	Springfield Co-oper. C. Co., North.....	do.....	1 Jeffrey.....	do.....	98,430
15	Barclay Coal Co.....	Barclay.....	2 Goodman.....	do.....	91,584
16	Cantrall Co-oper. Coal Co.....	Springfield.....	1 Jeffrey.....	do.....	87,212
17	Citizens C. M. Co., B.....	do.....	1 Baldwin.....	do.....	78,899
18	T. J. O'Gara, Jefferson.....	do.....	1 Morgan-Gardner.....	do.....	74,527
19	Citizens Coal Co., A.....	do.....	1 Baldwin.....	do.....	56,354
	Seventh District—17 mines.....		59 motors.....		7,215,781
1	Superior Coal Co., No. 3.....	Gillespie.....	2 Jeffrey; 2 Goodman.....	Electric..	837,834
2	Superior Coal Co., No. 2.....	do.....	2 Jeffrey; 3 Goodman.....	do.....	828,288
3	Superior Coal Co., No. 1.....	do.....	5 Jeffrey.....	do.....	681,852
4	Consolidated C. Co., No. 14.....	Staunton.....	2 General Electric.....	do.....	651,229
5	Consolidated C. Co., No. 15.....	Mt. Olive.....	2 General Electric.....	do.....	460,201
6	Royal Col. Co., No. 1.....	Virde.....	3 Westinghouse.....	do.....	395,652
7	Girard Col. Co., No. 5.....	Girard.....	2 Goodman.....	do.....	353,002
8	Madison Coal Corp., No. 5.....	Mt. Olive.....	2 Goodman.....	do.....	279,290
9	Glenridge Coal Co., No. 1.....	Virde.....	2 General Electric.....	do.....	242,122
10	Vivian Col. Co.....	Greenridge.....	2 Morgan-Gardner.....	do.....	209,213
11	Consolidated Coal Co., No. 8.....	Mt. Olive.....	1 General Electric.....	do.....	185,541
12	Peabody Coal Co., No. 14.....	Witt.....	8 Jeffrey.....	do.....	551,772
13	Shoal Creek Coal Co., No. 1.....	Panama.....	5 Goodman.....	do.....	542,473
14	Peabody Coal Co., No. 15.....	Taylor Springs.....	9 Jeffrey; 2 Goodman.....	do.....	395,003
15	Hillsboro Coal Co.....	Hillsboro.....	2 Goodman.....	do.....	351,723
16	Peabody Coal Co., No. 11.....	do.....	2 Jeffrey.....	do.....	167,070
17	Clover Leaf Coal Co., No. 2.....	Coffeen.....	1 Goodman.....	do.....	83,516
	Eighth District—21 mines.....		54 motors.....		5,739,252
1	South. C. C. & M. Co., No. 9.....	New Baden.....	6 Goodman.....	Electric..	367,619
2	Breese Trenton M. Co., E. M.....	Breese.....	4 Jeffrey.....	do.....	236,885
3	North Breese C. & M. Co., N. W.....	do.....	2 Goodman.....	do.....	235,096
4	Consolidated C. W. M.....	do.....	2 General Electric.....	do.....	120,186
5	Breese Trenton M. Co., Buxton.....	do.....	2 Jeffrey.....	do.....	76,517
6	New Staunton C. Co., No. 1.....	Livingston.....	3 Goodman.....	do.....	848,715
7	Mt. O. & Staunton C. Co., No. 2.....	Staunton.....	2 Goodman.....	do.....	518,010
8	Lumaghi C. Co., No. 2.....	Collinsville.....	3 Goodman.....	do.....	377,798

TABLE 50—Continued

Number	District and operator	Location	Motors		Tonnage
			Name	Kind	
9	Donk Bros. C. & C. Co., No. 2.	Maryville.	3 Goodman.	Electric.	361, 169
10	Donk Bros. C. & C. Co., No. 1.	Donkville.	3 Goodman.	do.	309, 832
11	Madison C. Corp., No. 2.	Glen Carbon.	3 Goodman.	do.	265, 504
12	De Camp C. M. Co., No. 1.	Staunton.	1 Goodman.	do.	232, 974
13	Donk Bros. C. & C. Co., No. 3.	Troy.	2 Goodman.	do.	187, 125
14	Kerns-Donnewald C. Co., K. D.	Worden.	1 Westinghouse.	do.	135, 092
15	Madison Coal Corp., No. 4.	Glen Carbon.	2 Goodman.	do.	167, 813
16	Mt. O. & Staunton C. Co., No. 1.	Staunton.	2 Goodman.	do.	144, 981
17	Marion Co. C. Co.	Centralia.	2 Goodman.	do.	390, 106
18	Chi. & Sandoval C. Co., No. 2.	Sandoval.	2 Whitcomb.	Gasoline.	201, 567
19	Odin Coal Co.	Odin.	2 Goodman; 1 Jeffrey.	Electric.	197, 058
20	Centralia Coal Co., No. 2.	Centralia.	1 Jeffrey; 1 Goodman.	do.	167, 516
21	Centralia Coal Co., No. 4.	do.	4 Goodman.	do.	147, 689
Ninth District—21 mines.			30 motors.		2, 935, 136
1	St. L. & O'Fallon C. Co., No. 1.	E. St. Louis.	4 Goodman.	Electric.	713, 381
2	Cons. C. Co., No. 17.	Collinsville.	2 General Electric.	do.	615, 318
3	South. C. & M. Co., No. 8.	Belleville.	2 Whitcomb.	Gasoline.	391, 316
4	Jos. Taylor C. Co., St. Ellen.	O'Fallon.	1 Jeffrey.	Electric.	203, 389
5	St. L. & O'Fallon C. Co., No. 1.	E. St. Louis.	3 Goodman.	do.	153, 461
6	Kolb Coal Co., No. 2.	Mascoutah.	1 Whitcomb.	Gasoline.	124, 031
7	Suburban C. & M. Co., No. 1.	Belleville.	1 Whitcomb.	do.	121, 137
8	Kolb Coal Co., No. 1.	Mascoutah.	2 Whitcomb.	do.	98, 886
9	Breese Trenton M. Co., T.	Trenton.	1 Whitcomb.	do.	84, 357
10	Jos. Taylor Coal Co., T. M.	O'Fallon.	1 Whitcomb.	do.	74, 096
11	Borders Coal Co., No. 1.	Marissa.	1 Whitcomb.	do.	53, 744
12	Jos. Taylor C. Co., Ridge P.	O'Fallon.	1 Jeffrey.	Electric.	51, 328
13	Johnson Coal Co., O. K.	Marissa.	1 Goodman.	do.	49, 210
14	Oakdale C. M. Co., Glenridge.	Belleville.	1 Goodman.	do.	42, 900
15	Gauch C. M. Co., Enterprise.	Rentchler.	1 Jeffrey.	do.	31, 500
16	Mo. & Ill. Coal Co.	do.	1 Goodman.	do.	30, 845
17	International C. M. Co., C. Mine	O'Fallon.	1 Goodman.	do.	28, 237
18	L. Senior.	Belleville.	2 Ellison.	Gasoline.	27, 169
19	Tirrie Coal Co., T. M.	Lenzburg.	1 Goodman.	Electric.	21, 595
20	Vulcan C. & M. Co., Hippard.	Belleville.	1 Goodman.	do.	18, 675
21	Kolb Coal Co., No. 1.	New Athens.	1 Whitcomb.	Gasoline.	561
Tenth District—16 mines.			39 motors.		2, 240, 899
1	Big Muddy C. & I. Co., No. 9.	Murphysboro.	1 General Electric; 1 West-	Electric.	256, 240
2	Big Muddy C. & I. Co., Harrison	do.	inghouse.		
3	Kreikheimier C. Co., No. 1.	DeSoto.	2 Goodman.	do.	97, 838
4	Mt. Vernon Coal Co.	Mt. Vernon.	1 Milwaukee.	do.	41, 713
5	Security C. & M. Co., No. 1.	Duquoin.	1 Whitcomb.	Gasoline.	35, 619
6	Willis Coal M. Co., No. 1.	Willisville.	4 Goodman.	Electric.	275, 674
7	Paradise Coal Co., Paradise.	Willisville.	3 Goodman.	do.	244, 538
8	Majestic C. & C. Co.	Duquoin.	3 Goodman.	do.	241, 483
9	Mo. & Ill. Coal Co., No. 4.	do.	5 Goodman.	do.	215, 730
10	St. L. & Coulter. C. Co., Vulcan	Willisville.	1 Goodman.	do.	120, 726
11	Brilliant C. & C. Co., H. Mine	Coulterville.	1 General Electric.	do.	61, 404
12	Willis C. & M. Co., Galby No. 6.	Duquoin.	1 Goodman.	do.	13, 047
13	Wilson Bros. Coal Co., No. 7.	Percy.	2 Goodman.	do.	269, 110
14	Ill. Fuel Co., No. 4.	Sparta.	1 Goodman.	do.	78, 306
15	Boyd C. & C. Co., No. 1.	do.	1 Goodman.	do.	75, 600
16	Centralia Coal Co., No. 5.	do.	1 Ellison.	Gasoline.	7, 426
		Centralia.	10 Goodman.	Electric.	200, 445
Eleventh District—29 mines.			115 motors.		9, 451, 009
1	Ohio Valley M. Co., No. 8.	W. Frankfort.	10 Jeffrey.	Electric.	616, 531
2	Ziegler Dist. Col. Co., N. W.	Christopher.	2 Morgan-Gardner; 1 Jeffrey; 11 General Electric.		
3	Bell & Zollar M. Co., No. 1.	Zeigler.	10 Westinghouse; 4 Goodman; 3 Jeffrey.	do.	603, 187
4	United C. M. Co., No. 1.	Christopher.	6 Goodman; 2 Jeffrey.	do.	568, 844
5	Sesser Coal Co.	Sesser.	2 Westinghouse; 2 General Electric.	do.	535, 672
6	Benton Coal Co.	Benton.	3 Morgan-Gardner.	do.	471, 408
7	Hart-Williams C. Co., No. 1.	do.	3 Morgan-Gardner.	do.	406, 275
8	Franklin C. & C. Co.	Royalton.	5 Goodman; 1 General Electric.	do.	391, 119
9	United C. M. Co., No. 2.	Buckner.	do.	do.	331, 807
10	W. P. Rend Col. Co.	Rend.	8 Goodman; 1 Jeffrey.	do.	310, 633
11	So. Ill. C. & C. Co., P.-R.	Herrin.	2 Morgan-Gardner.	do.	274, 225
			1 Whitcomb.	Gasoline.	221, 448



TABLE 50—*Concluded*

Number	District and operator	Location	Motors		Tonnage
			Name	Kind	
12	Dering Coal Co., No. 11.....	W. Frankfort..	2 Morgan-Gardner; 1 Goodman	Electric..	205, 707
13	Christopher C. M. Co., No. 1.....	Christopher....	1 General Electric.	do.....	29, 940
14	Saline Co. Coal Co., No. 2.....	Ledford.....	1 Morgan-Gardner; 1 Jeffrey	do.....	552, 064
15	O'Gara Coal Co., No. 9.....	Harrisburg....	3 Morgan-Gardner.	do.....	504, 557
16	Saline Co. Coal Co., No. 3.....	do.....	6 Goodman; 1 Morgan-Gardner; 1 Jeffrey.	do.....	467, 598
17	Wasson Coal Co., No. 1.....	Wasson.....	3 Morgan-Gardner.	do.....	357, 949
18	O'Gara Coal Co., No. 3.....	Harrisburg....	1 Morgan-Gardner.	do.....	343, 821
19	O'Gara Coal Co., No. 10.....	Eldorado.....	2 Morgan-Gardner.	do.....	294, 246
20	O'Gara Coal Co., No. 14.....	Ledford.....	2 Morgan-Gardner.	do.....	277, 803
21	Eldorado C. M. Co., No. 1.....	Eldorado.....	2 Morgan-Gardner.	do.....	272, 512
22	O'Gara Coal Co., No. 4.....	Harrisburg....	2 Morgan-Gardner.	do.....	268, 006
23	O'Gara Coal Co., No. 15.....	Carriers Mills.	2 Morgan-Gardner.	do.....	267, 486
24	O'Gara Coal Co., No. 1.....	Harrisburg....	2 Morgan-Gardner.	do.....	265, 664
25	Big Creek Col. Co., No. 1.....	Eldorado.....	1 Morgan-Gardner.	do.....	143, 331
26	O'Gara Coal Co., No. 12.....	Harrisburg....	1 Morgan-Gardner.	do.....	124, 656
27	O'Gara Coal Co., No. 8.....	Eldorado.....	1 Morgan-Gardner.	do.....	116, 032
28	O'Gara Coal Co., No. 7.....	Carriers Mills.	1 Morgan-Gardner.	do.....	121, 794
29	O'Gara Coal Co., No. 11.....	Eldorado.....	1 Morgan-Gardner.	do.....	106, 694
Twelfth District—24 mines.....			52 motors.....		6, 566, 257
1	Madison Coal Corp., No. 9.....	Dewmaine.....	2 Goodman.....	Electric..	544, 369
2	Peabody Coal Co., No. 3.....	Marion.....	2 Goodman; 1 Morgan-Gardner.	do.....	537, 195
3	Big Muddy C. & I. Co., No. 8.....	Clifford.....	2 General Electric; 1 Jeffrey.	do.....	511, 155
4	Johnston City Coal Co., No. 1.....	Johnston City.	5 Morgan Gardner.	do.....	439, 868
5	W. P. Rend C. & C. Co., No. 2.....	Herrin.....	2 Morgan Gardner.	do.....	420, 241
6	Chi. & Carterville C. Co., A.....	do.....	3 Goodman.....	do.....	364, 888
7	Sunnyside Coal Co., No. 1.....	do.....	1 Jeffrey; 3 Goodman.	do.....	355, 730
8	Madison Coal Corp., No. 8.....	Dewmaine.....	2 Westinghouse.	do.....	312, 287
9	Western Coal M. Co., Bush.....	Bush.....	4 General Electric.	do.....	294, 351
10	Southern Ill. C. & C. Co., O. R.....	Herrin.....	1 Whitcomb.....	Gasoline..	283, 496
11	Carterville C. Co., Burr C.....	Carterville....	1 Whitcomb.....	do.....	266, 107
12	Big Muddy C. & I. Co., No. 7.....	Herrin.....	2 Jeffrey; 1 General Electric.	Electric..	250, 082
13	W. Va. Coal Co., No. 1.....	Marion.....	1 Jeffrey.....	do.....	244, 154
14	Taylor Coal Co., No. 2.....	Herrin.....	2 Whitcomb.....	Gasoline..	235, 884
15	Big Muddy Fuel Co., W. Va.....	Johnston City.	1 Goodman.....	Electric..	201, 543
16	Ill. Hocking Washed C. Co.....	Marion.....	2 Whitcomb.....	Gasoline..	201, 250
17	Peabody Coal Co., No. 2.....	do.....	2 Goodman.....	Electric..	192, 259
18	Hafer Washed Coal Co., No. 3.....	Carterville....	1 Whitcomb.....	Gasoline..	191, 940
19	Chi. and Big. M. C. Co., No. 1.....	Marion.....	2 Goodman; 1 Jeffrey.	Electric..	186, 837
20	St. L. & Carterville C. Co., Dale.....	Herrin.....	1 Whitcomb.....	Gasoline..	151, 247
21	Williamson Co. C. Co., O. Mine.....	Johnston City.	1 Goodman.....	Electric..	148, 794
22	Chi. & Carterville C. Co., B.....	Herrin.....	2 Westinghouse.	do.....	102, 206
23	Carterville & B. M. C. Co., John.....	Cambria.....	1 Jeffrey; 1 Goodman.	do.....	94, 978
24	Pittsburg B. M. C. Co., No. 2.....	Pittsburg.....	1 Goodman.....	do.....	35, 396

Table 51 gives the name and number of motors in use, by districts.

TABLE 51—NAME AND NUMBER OF MOTORS IN USE BY DISTRICTS—1913

Districts	Ellison	Baldwin	General Electric	Goodman	Jeffrey	Morgan-Gardner	Porter, H. K.	Wagner	Westinghouse	McClelland	Whitcomb	Milwaukee	Total
First.....				1									1
Second.....											1		1
Third.....			3	14	2	1			5				25
Fourth.....				4	5	2			1		1	1	14

TABLE 51—*Concluded*

Districts	Ellison	Baldwin	General Electric	Goodman	Jeffrey	Morgan-Gardner	Porter, H. K.	Wagner	Westing-house	McClelland	Whitcomb	Milwaukee	Total
Fifth.....			6	19	9	3			2		1		40
Sixth.....		2	2	20	10	1					2		37
Seventh.....			7	19	28	2			3				59
Eighth.....			2	41	8				1		2		54
Ninth.....	2		9	6	3						10		30
Tenth.....	1		2	33					1		1	1	39
Eleventh.....			15	30	19	38			12		1		115
Twelfth.....			7	18	7	8			4		8		52
The State, 1913.....	3	2	53	205	91	55			29		27	2	467
The State, 1912.....	6		26	174	75	59			28		12	1	381
The State, 1911.....	2		34	140	55	38		1	31		2		303
The State, 1910.....	3		14	114	46	30	4	1	17				229
The State, 1909.....	1		14	102	40	26	4		20	2	1		210

## PRICE PAID FOR MINING

Table 52 shows, by districts, the tons mined by hand and by machine and the average price per ton paid for mining. More than 200,000 tons were mined by machines in local mines this year.

TABLE 52—AVERAGE PRICE PAID FOR MINING BY HAND AND MACHINE AT SHIPPING AND LOCAL MINES, BY DISTRICT

Districts	Mining by hand				Machine mining	
	Shipping mines		Local mines		Shipping and local mines	
	Tons	Average price per ton	Tons	Average price per ton	Tons	Average price per ton
First.....	1,972,525	\$0.896	97,720	\$1.049	179,961	\$0.63
Second.....	2,194,356	.866	183,973	1.001	13,987	.65
Third.....	2,653,536	.789	157,231	.807	298,520	.583
Fourth.....	2,019,094	.68	177,821	.959	378,280	.61
Fifth.....	3,893,236	.638	173,437	.665	1,513,705	.54
Sixth.....	5,254,110	.623	84,504	.626	955,071	.54
Seventh.....	1,820,550	.613	6,913	.992	5,804,793	.54
Eighth.....	1,904,928	.597	53,187	.478	4,389,377	.54
Ninth.....	2,697,453	.61	92,765	.61	1,949,994	.54
Tenth.....	1,137,281	.585	47,793	.624	2,180,102	.515
Eleventh.....	596,581	.569	30,139	.508	9,223,087	.498
Twelfth.....	4,343,546	.568	25,005	.70	3,341,643	.498
The State.....	30,487,196	\$0.664	1,130,488	\$0.802	30,228,520	\$0.521

Table 53 is the record for thirteen years of the tonnage produced and the price paid per ton for hand and machine mining in shipping mines.



TABLE 53—TOTAL TONNAGE AND AVERAGE PRICES PAID FOR HAND AND MACHINE MINING AT SHIPPING MINES FOR A SERIES OF THIRTEEN YEARS—1901-1913

Years	Hand mining		Machine mining	
	Tons	Price per ton	Tons	Price per ton
1901.....	20,172,779	\$0.564	5,774,639	\$0.412
1902.....	22,186,812	.564	6,647,086	.395
1903.....	26,042,104	.57	7,646,777	.434
1904.....	28,648,682	.593	7,130,835	.466
1905.....	27,762,968	.578	8,193,575	.443
1906.....	27,566,480	.57	9,563,230	.442
1907.....	31,854,488	.592	14,490,454	.479
1908.....	32,604,716	.593	15,210,403	.467
1909.....	31,556,456	.593	16,407,692	.466
1910.....	29,048,947	.597	18,176,254	.462
1911.....	28,769,398	.627	19,998,259	.494
1912.....	30,588,981	.636	25,550,059	.496
1913.....	30,487,196	.664	30,028,220	.521

Table 54 shows the earnings of miners in shipping mines where no machines are used.

TABLE 54—EARNINGS OF COAL MINERS, HAND MINING EXCLUSIVELY, IN SHIPPING MINES, BY DISTRICTS

Districts	Number of miners	Average days worked	Tons mined	Average rate per ton	Gross earnings	Average tons per man per year	Average earnings per man per year	Average tons per man per day	Average earnings per man per day
First.....	3,109	210	1,972,525	\$0.896	\$1,768,267	634.46	\$568.76	3.02	\$2.71
Second.....	2,972	198	2,041,076	.877	1,790,893	686.77	602.59	3.47	3.04
Third.....	3,084	213	2,566,362	.792	2,033,128	832.15	659.25	3.91	3.10
Fourth.....	1,788	189	1,713,484	.68	1,165,169	958.32	651.66	4.96	3.45
Fifth.....	3,094	179	3,445,046	.622	2,143,437	1,113.46	692.77	6.22	3.87
Sixth.....	4,935	180	5,254,110	.623	3,273,487	1,064.66	663.32	5.91	3.69
Seventh.....	1,499	165	1,594,647	.614	978,232	1,064.81	652.59	6.45	3.95
Eighth.....	1,541	166	1,571,198	.595	934,375	1,019.60	606.34	6.14	3.65
Ninth.....	1,958	135	2,050,673	.61	1,250,911	1,047.33	638.87	7.76	4.73
Tenth.....	1,077	133	784,827	.591	463,945	728.72	430.78	5.48	3.24
Eleventh.....	257	159	217,968	.57	124,241	848.12	483.43	5.33	3.04
Twelfth.....	2,307	161	2,427,496	.57	1,383,673	1,052.23	599.77	6.54	3.73
The State..	27,621	174	25,639,412	\$0.675	\$17,309,758	928.26	\$626.69	5.33	\$3.60

### MACHINE MINING

Table 55 gives, by districts, the record of machine mining for the year.

TABLE 55—MACHINE MINING—MINES, MEN, MACHINES, TONS, BY DISTRICTS

Districts	Mines in which machines are used—								
	Exclusively				In part			Total	
	Mines	Men	Machines	Tons	Mines	Machines	Tons	Mines	Machines
First.....	2	159	5	179,961	1	1	4,719	2	5
Second.....	1	31	2	9,268	1	1	378,280	3	13,987
Third.....	3	327	24	228,310	3	8	70,210	3	32
Fourth.....	3	471	26	364,576	3	31	378,280	3	31
Fifth.....	2	946	28	955,071	3	40	1,149,129	6	66
Sixth.....	11	4,896	254	5,381,153	3	28	423,640	2	28
Seventh.....	12	3,747	142	3,583,889	107	805,488	14	282	5,804,793
Eighth.....	12	1,725	118	1,776,672	5	51	173,322	18	249
Ninth.....	10	2,051	95	1,423,271	8	49	756,831	17	169
Tenth.....	26	7,168	284	6,245,899	8	142	2,977,188	18	144
Eleventh.....	4	1,248	87	1,036,861	14	167	2,304,782	34	426
Twelfth.....								18	254
The State.....	86	22,769	1,065	21,184,931	54	624	9,043,589	140	1,689
								30	228,520

Table 56 gives the record of machine mining for fourteen years.

TABLE 56—MACHINE MINING—MINES, MEN, MACHINES, TONS, FOR FOURTEEN YEARS

Year	Mines in which machines are used—								
	Exclusively				In part			Total	
	Mines	Men	Machines	Tons	Mines	Machines	Tons	Mines	Machines
1900.....	38	3,883	272	3,765,601	29	158	1,817,993	67	430
1901.....	29	3,499	280	3,761,270	34	184	2,015,369	63	464
1902.....	34	4,811	308	4,460,025	30	156	2,037,098	64	464
1903.....	33	4,378	292	4,393,052	35	230	3,253,725	68	522
1904.....	40	3,691	400	4,903,184	27	223	2,237,243	67	623
1905.....	52	4,635	560	6,406,571	24	224	1,795,495	76	784
1906.....	57	6,137	685	7,638,536	28	277	1,924,694	85	962
1907.....	60	6,858	748	10,434,573	41	357	4,055,881	101	1,105
1908.....	60	12,357	754	11,246,285	45	406	3,964,138	105	1,160
1909.....	55	12,258	771	10,637,513	52	475	5,770,179	107	1,246
1910.....	61	14,454	839	12,474,471	53	450	5,701,783	114	1,289
1911.....	60	14,754	854	12,625,625	66	576	7,372,634	126	1,430
1912.....	69	18,363	957	16,960,021	70	624	8,590,038	139	1,581
1913.....	86	22,769	1,065	21,184,931	54	624	9,043,589	140	1,689

Table 57. The name and number of machines in use is given in this table by district.

TABLE 57—NAME AND NUMBER OF MINING MACHINES IN USE, BY DISTRICT

Districts	Sullivan	Morgan-Gardner	Goodman	Jeffrey	Ingersoll	Harrison	Ingersoll-Rand	Herzler & Henenger	Ingersoll Sergeant	Whitcomb	Total
First.....			2							3	5
Second.....	2	1									3
Third.....	11	16		5							32
Fourth.....		28		3							31
Fifth.....	26	16	11	13							66
Sixth.....	1	12	15								28
Seventh.....	103		64	12	48	35	20				282
Eighth.....	76		67	40	57	2			7		249
Ninth.....	64	1	16	7	19	41		21			169
Tenth.....	49		47		6	36	6				144
Eleventh.....	88	207	72	47	11	1					426
Twelfth.....	139	61	22	20	3	5	2	2			254
The State.....	559	342	316	147	144	120	28	23	7	3	1,689

Table 58 gives the name and number of machines in use for fourteen years.

TABLE 58—NAME AND NUMBER OF MINING MACHINES IN USE FOR FOURTEEN YEARS

Year	Sullivan	Ingersoll-Sergeant	Harrison	Goodman	Morgan-Gardner	Jeffrey	Ingersoll-Rand	Herzler & Henenger	Yock	Link Belt	Lee	Butler	Electric	Belleville	Ingersoll	Whitcomb	Total
1900.....	40	119	197		19	30		1	5	19							430
1901.....	33	132	178		32	33		13	24	19							464
1902.....	36	133	160	32	22	31		20	28			2					464
1903.....	82	95	178	15	15	50		33	31	21		2					522
1904.....	131	142	210	29	27	29		22	27	4		2					623
1905.....	183	178	236	49	19	41		40	33	4		1					784
1906.....	315	197	244	82	28	33		35	25		3						962
1907.....	427	221	195	112	74	35		26	8	4	3						1,105
1908.....	476	196	181	127	112	34		23	1	4		5	5	1			1,160
1909.....	474	206	168	134	194	49		11	7		2			1			1,246
1910.....	501	157	149	124	223	74	19	77	6	11	2						1,289
1911.....	560	28	121	173	275	85	60	18		11					99		1,430
1912.....	563	51	122	257	307	117		19					1		153	1	1,581
1913.....	559	7	120	316	342	147	28	23							144	3	1,689

Table 59 gives the name of the company, the location of the mine, the name and number of machines in use and tons mined in those mines where machine mining is carried on exclusively. The number of this class of mines has increased since last report 16, the number of machines has been increased 108, and the tonnage 4,224,910.

TABLE 59—MINES IN WHICH MACHINES ARE USED EXCLUSIVELY

Number	Company	Location	Machines		Tons
			No.	Name	
1	New Staunton Coal Co., No. 1.....	Livingston.....	16	Goodman.....	848, 715
2	Superior Coal Co., No. 3.....	Gillespie.....	12	3 Sullivan; 9 Jeffrey.....	837, 834
3	Superior Coal Co., No. 2.....	..do.....	47	26 Sullivan; 13 Harrison; 8 Ingersoll.....	828, 288
4	Superior Coal Co., No. 1.....	..do.....	50	2 Jeffrey; 40 Ingersoll; 8 Harrison.....	681, 852
5	Consolidated Coal Co., No. 14.....	Staunton.....	31	Sullivan.....	651, 229
6	Ohio Valley Mining Co., No. 8.....	West Frankfort.....	22	Jeffrey.....	616, 531
7	Consolidated Coal Co., No. 17.....	East St. Louis.....	32	30 Sullivan; 2 Harrison.....	615, 318
8	Bell & Zollar Mining Co., No. 1.....	Zeigler.....	23	Goodman.....	568, 844
9	Saline Co. Coal Co., No. 2.....	Ledford.....	10	1 Goodman; 9 Morgan-Gardner.....	552, 064
10	Chi., Wilm. & Ver. Coal Co., No. 1.....	Thayer.....	14	1 Sullivan; 1 Goodman; 12 Morgan-Gardner.....	551, 787
11	Shoal Creek Coal Co., No. 1.....	Panama.....	20	Goodman.....	542, 473
12	Mt. Olive & Staunton C. Co., No. 2.....	Staunton.....	15	2 Jeffrey; 13 Goodman.....	518, 010
13	Big Muddy C. & I. Co., No. 8.....	Clifford.....	43	39 Sullivan; 3 Ingersoll; 1 Harrison.....	511, 155
14	O'Gara Coal Co., No. 9.....	Harrisburg.....	15	Morgan-Gardner.....	504, 557
15	Saline Co. Coal Co., No. 3.....	..do.....	13	..do.....	467, 598
16	Consolidated Coal Co., No. 15.....	Mt. Olive.....	27	Sullivan.....	460, 201
17	Madison Coal Corporation, No. 6.....	Diernon.....	14	Goodman.....	403, 284
18	Royal Coal Co., No. 1.....	Virde.....	13	..do.....	395, 652
19	Southern C. C. & M. Co., No. 8.....	Belleville.....	9	7 Jeffrey; 1 Goodman; 1 Morgan-Gardner.....	391, 316
20	Marion Co. Coal Co.....	Centralia.....	10	Goodman.....	390, 106
21	Lumaghi Coal Co., No. 2.....	Collinsville.....	22	1 Sullivan; 21 Jeffrey.....	377, 798
22	Southern C. C. & M. Co., No. 9.....	New Baden.....	25	1 Goodman; 22 Sullivan; 2 Harrison.....	367, 619
23	Wasson Coal Co., No. 10.....	Eldorado.....	12	Morgan-Gardner.....	357, 949
24	Hillsboro Coal Co.....	Hillsboro.....	9	8 Goodman; 1 Jeffrey.....	351, 723
25	United C. M. Co., No. 2.....	Buckner.....	8	Goodman.....	310, 633
26	O'Gara Coal Co., No. 10.....	Eldorado.....	13	Morgan-Gardner.....	294, 246
27	Southern C. C. & M. Co., No. 7.....	Belleville.....	19	Harrison.....	283, 079
28	Madison Coal Corporation, No. 5.....	Mt. Olive.....	20	Ingersoll-Rand.....	279, 290
29	O'Gara Coal Co., No. 14.....	Ledford.....	10	Morgan-Gardner.....	277, 803
30	Security Coal Mining Co., No. 1.....	Duquoin.....	6	Sullivan.....	275, 674
31	W. P. Rand Col. Co., No. 1.....	Rend.....	16	10 Morgan-Gardner; 6 Jeffrey.....	274, 225
32	Willis Coal Mining Co., No. 6.....	Percy.....	9	Goodman.....	269, 110
33	O'Gara Coal Co., No. 4.....	Harrisburg.....	10	Morgan Gardner.....	268, 006
34	O'Gara Coal Co., No. 15.....	Carriers Mills.....	9	..do.....	267, 486
35	O'Gara Coal Co., No. 1.....	Harrisburg.....	13	..do.....	265, 664
36	Big Muddy C. & I. Co., No. 9.....	Murphysboro.....	9	Sullivan.....	256, 240
37	Stonington Coal Co.....	Taylorville.....	9	Goodman.....	239, 938
38	Breese-Trenton Mining Co.....	Breese.....	10	..do.....	236, 885
39	DeKamp Coal Mining Co., No. 1.....	Staunton.....	6	..do.....	232, 974
40	Southern Ill. C. & C. Co., P. R.....	Herrin.....	14	13 Sullivan; 1 Harrison.....	221, 448
41	Derring Coal Co., No. 11.....	W. Frankfort.....	26	Sullivan.....	205, 707
42	Ill. Hocking Washed Coal Co.....	Marion.....	17	..do.....	201, 250
43	Standard Col. Co., McC.....	Johnston City.....	11	Jeffrey.....	197, 589
44	Odin Coal Co.....	Odin.....	9	4 Goodman; 5 Jeffrey.....	197, 058
45	Consolidated Coal Co., No. 8.....	Mt. Olive.....	13	Harrison.....	185, 541
46	Kerns-Donnewald Coal Co.....	Worden.....	7	2 Goodman; 5 Jeffrey.....	185, 092
47	Peabody Coal Co., No. 11.....	Hillsboro.....	12	Goodman.....	167, 070
48	Mathessen-Hergler Zinc Co.....	LaSalle.....	2	..do.....	158, 940
49	Ritchey Coal Co., No. 1.....	Pinckneyville.....	13	Harrison.....	158, 852
50	Groveland Coal Co., No. 1.....	Peoria.....	12	Morgan-Gardner.....	148, 294
51	Mt. Olive & Staunton C. Co., No. 1.....	Staunton.....	10	3 Sullivan; 7 Jeffrey.....	144, 981
52	Superior Coal Mining Co.....	Belleville.....	10	Herzler & Henenger.....	138, 369
53	Pond Creek Coal Co.....	Herrin.....	16	12 Sullivan; 2 Ingersoll; 2 Herzler & Henenger.....	126, 867
54	Mo. & Ill. Coal Co., No. 4.....	Willisville.....	7	Goodman.....	126, 726
55	O'Gara Coal Co., No. 12.....	Harrisburg.....	6	Morgan-Gardner.....	124, 656
56	O'Gara Coal Co., No. 7.....	Carriers Mills.....	4	..do.....	121, 794
57	O'Gara Coal Co., No. 8.....	Eldorado.....	9	..do.....	116, 032
58	Carroll & Franklin Counties Coal Co., No. 1.....	Hanaford.....	6	..do.....	111, 902
59	O'Gara Coal Co., No. 11.....	Eldorado.....	10	..do.....	106, 694
60	Big Muddy C. & I. Co., Harrison.....	Murphysboro.....	17	Harrison.....	97, 838
61	Dering Coal Co., No. 18.....	W. Frankfort.....	21	Sullivan.....	84, 783
62	Breese-Trenton Mining Co.....	Trenton.....	19	Ingersoll.....	84, 357
63	Mulberry Hill Coal Co.....	Freeburg.....	4	Goodman.....	81, 298
64	Lumaghi Coal Co., No. 3.....	Collinsville.....	11	Sullivan.....	80, 151
65	Star Fuel Mining Co., Star.....	Freeburg.....	6	Herzler & Henenger.....	76, 741
66	Illinois Fuel Co., No. 4.....	Sparta.....	7	Goodman.....	75, 600
67	Ill. Midland Coal Co., No. 7.....	Taylorville.....	9	Morgan-Gardner.....	74, 825
68	Moffat Coal Co., No. 1.....	Sparta.....	15	Sullivan.....	74, 318

TABLE 59—*Concluded*

Number	Company	Location	Machines		Tons
			No.	Name	
69	West Frankfort Coal Co., No. 1...	W. Frankfort..	4	Morgan-Gardner.....	69,045
70	Loran Coal Co., No. 1.....	Hana City.....	11	8 Sullivan; 3 Jeffrey.....	68,000
71	Moweaqua C. M. & Mfg. Co., No. 1	Moweaqua.....	8	1 Goodman; 7 Morgan-Gardner.	49,813
72	Gus Blair B. M. C. Co., No. 1....	Murphysboro..	5	3 Harrison; 2 Ingersoll.....	47,905
73	Oakdale Coal M. Co., Glendale....	Belleville.....	4	Herzler & Henenger.....	42,900
74	Gus Blair B. M. C. Co., No. 2....	Murphysboro..	7	3 Harrison; 4 Ingersoll.....	41,008
75	Mo. & Ill. Coal Co.....	Rentchler.....	6	Goodman.....	30,845
76	Christopher C. M. Co., No. 1.....	Christopher....	4	do.....	29,940
77	Southern C. C. & M. Co., No. 1....	Belleville.....	6	Harrison.....	22,554
78	Streator Clay Mfg. Co.....	Streator.....	3	Whitcomb.....	21,021
79	Norris City Coal Co.....	Norris City....	2	1 Morgan-Gardner; 1 Harrison..	19,246
80	German Coal Co., No. 1.....	Mapleton.....	1	Jeffrey.....	12,016
81	Central Ill. Fuel Co.....	Coal City.....	2	Sullivan.....	9,268
82	Peoples Coal Co.....	Lebanon.....	2	Harrison.....	8,625
83	Crescent Coal Co.....	Equality.....	3	Sullivan.....	8,102
84	Bunker Hill Coal Co.....	Collinsville....	1	Goodman.....	4,500
85	Edgemont Coal Co.....	Edgemont.....	1	do.....	1,270
86	Macke Coal Co.....	Ledford.....	1	Sullivan.....	944
Total.....			1,065	.....	21,184,931

Table 60 is a list of the 1,065 machines used in mines where machine mining is carried on exclusively, and gives the name and number of each, the number of mines using, number of men employed, days worked and tons produced.

TABLE 60—MACHINE MINING EXCLUSIVELY, NAME AND NUMBER OF MACHINES, NUMBER OF MINES, MEN, DAYS AND TONS

Name of machines	Number of—				
	Machines	Mines	Men	Average days	Tons
Goodman.....	182	20	5,226	189	5,114,903
Sullivan.....	169	12	2,596	160	2,307,867
Morgan-Gardner.....	155	16	4,523	210	3,576,491
Harrison.....	70	6	942	174	756,489
Jeffrey.....	34	3	753	196	826,136
Ingersoll-Rand.....	20	1	306	202	279,290
Herzler & Henenger.....	20	3	262	190	258,010
Ingersoll.....	19	1	200	123	84,357
Whitcomb.....	3	1	26	288	21,021
Sullivan, 65—Harrison, 14—Ingersoll, 11.....	90	2	1,212	205	1,339,403
Jeffrey, 40—Sullivan, 15.....	55	4	1,568	159	1,428,613
Ingersoll, 40—Harrison, 8—Jeffrey, 2.....	50	1	659	212	681,852
Sullivan, 43—Harrison, 3.....	46	2	586	250	836,766
Goodman, 27—Jeffrey, 13.....	40	4	1,203	213	1,251,883
Sullivan, 22—Harrison, 2—Goodman, 1.....	25	1	409	186	367,619
Morgan-Gardner, 16—Goodman, 2.....	18	2	501	201	601,877
Morgan-Gardner, 10—Jeffrey, 6.....	16	1	297	230	274,225
Sullivan, 12—Ingersoll-Rand, 2—Herzler & Henenger, 2.....	16	1	193	171	126,867
Morgan-Gardner, 12—Goodman, 1—Sullivan, 1.....	14	1	470	212	551,787
Harrison, 6—Ingersoll, 6.....	12	2	145	242	88,913
Jeffrey, 7—Goodman, 1—Morgan-Gardner, 1.....	9	1	331	215	391,316
Morgan-Gardner, 1—Sullivan, 1.....	2	1	59	126	19,246
Total.....	1,065	86	22,467	191	21,184,931

Table 61 gives the name, location, number and name of machine used, and tons produced, in those mines where only a part of the tonnage is undercut.

TABLE 61—MINES IN WHICH ONLY PART OF OUTPUT IS CUT BY MACHINES

Number	Company	Location	Machines		Tons
			No.	Name	
1	Bunsen Coal Co., L. V.	Westville	19	15, Sullivan; 4 Jeffrey	555, 599
2	Zeigler District Col. Co.	Christopher	20	19 Jeffrey; 1 Morgan-Gardner	524, 556
3	United Coal Co., No. 1	do.	19	Goodman	493, 286
4	Sesser Coal Co.	Sesser	32	21 Sullivan; 11 Ingersoll	469, 244
5	Peabody Coal Co., No. 15	Taylor Springs	17	16 Sullivan; 1 Goodman	391, 851
6	W. P. Rend Col. Co.	Herrin	17	Morgan-Gardner	385, 717
7	Chicago & Carterville C. Co., "A"	do.	34	Sullivan	343, 383
8	O'Gara Coal Co., No. 3	Harrisburg	15	Morgan-Gardner	342, 701
9	Johnston City Coal Co.	Johnston City	27	25 Morgan-Gardner; 1 Goodman; 1 Jeffrey	337, 369
10	Benton Coal Co.	Benton	16	Morgan-Gardner	334, 473
11	Hart-Williams Coal Co.	do.	18	do.	333, 189
12	Franklin C. & C. Co.	Royalton	14	11 Goodman; 2 Sullivan; 1 Morgan-Gardner	325, 307
13	Donk Bros. Coal & Coke Co.	Maryville	39	Sullivan	308, 003
14	Bunsen Coal Co., No. 3	Westville	10	9 Jeffrey; 1 Sullivan	306, 145
15	Bunsen Coal Co., No. 2	do.	11	10 Sullivan; 1 Goodman	287, 385
16	Willis Coal & Mining Co.	Willisville	11	6 Goodman; 5 Sullivan	240, 393
17	Madison Coal Corp., No. 2	Glen Carbon	25	Ingersoll	239, 004
18	West Virginia Coal Co.	Marion	8	Jeffrey	233, 689
19	Big Creek Coal Co., No. 2	St. David	12	Morgan-Gardner	211, 441
20	Paradise Coal Co.	Duquoin	9	Goodman	196, 756
21	Sunnyside Coal Co.	Herrin	22	Sullivan	192, 927
22	Peabody Coal Co., No. 3	Marion	10	Morgan-Gardner	181, 296
23	Majestic Coal Co.	Duquoin	8	Sullivan	172, 500
24	Big Creek Coal Co., No. 4	Dunfermline	9	Morgan-Gardner	157, 797
25	Eldorado Coal Mining Co.	Eldorado	8	6 Goodman; 2 Morgan-Gardner	154, 432
26	Peabody Coal Co., No. 2	Marion	9	Morgan-Gardner	145, 510
27	Big Muddy Fuel Co.	Johnston City	7	Goodman	140, 492
28	North Breese C. & M. Co.	Breese	4	do.	100, 119
29	Seranton & Big M. Coal Co.	Marion	10	Sullivan	98, 564
30	St. Louis & O'Fallon C. Co., No. 2	East St. Louis	36	32 Sullivan; 4 Goodman	88, 826
31	Madison Coal Corp., No. 9	Dewmaine	3	Goodman	86, 930
32	Chicago & Big Muddy Coal Co.	Marion	4	do.	62, 799
33	Madison Coal Corp., No. 4	Glen Carbon	25	Ingersoll	62, 007
34	W. S. Walker	Edwardsville	7	do.	53, 000
35	Gartside Coal Co.	Murphysboro	6	Ingersoll-Rand	52, 561
36	Wilson Bros. Coal Co.	Sparta	3	Goodman	49, 509
37	City Coal Co.	Edwardsville	7	Ingersoll-Sargeant	43, 355
38	Eldnar Coal Co.	Belleville	3	Harrison	42, 972
39	Southern Illinois Coal Co.	Herrin	9	5 Sullivan; 4 Harrison	38, 197
40	Groveland Coal Co.	Peoria	2	2 Sullivan; 2 Morgan-Gardner	37, 422
41	Madison Coal Corp., No. 8	Dewmaine	3	Goodman	34, 513
42	Centralia Coal Co., No. 5	Centralia	5	do.	31, 859
43	Glenridge Coal Co.	Virdeu	10	do.	26, 789
44	L. Senior	Belleville	3	Harrison	26, 573
45	Pittsburg Big Muddy Coal Co.	Marion	4	Goodman	23, 396
46	Peoria Dist. Col. Co.	Bartonville	2	1 Morgan-Gardner; 1 Jeffrey	22, 401
47	Silver Creek Valley Coal Co.	Belleville	5	2 Harrison; 2 Sullivan; 1 Herzler & Henenger	13, 230
48	Illinois Valley Coal Co., No. 2	Sparland	2	1 Sullivan; 1 Morgan-Gardner	10, 387
49	Maplewood Col. Co., No. 2	Farmington	10	7 Morgan-Gardner; 3 Jeffrey	9, 042
50	Bald Eagle Mining Co.	Craig	6	Sullivan	8, 845
51	Ed Bauser	Bunker Hill	1	Harrison	5, 000
52	Coal Valley Mining Co.	Mathersville	1	Morgan-Gardner	4, 719
53	Brilliant Coal & Coke Co.	Duquoin	1	Goodman	4, 408
54	Missouri & Illinois Coal Co.	Belleville	4	Harrison	1, 721
Total			624		9, 043, 589

## POWDER

Tables 62, 63, 64, 65 and 66 show the consumption of powder in the mines for blasting the coal. Table 62 is the record for all mines. Table 63 is for shipping mines only. Tables 64, 65 and 66 give the record for shipping mines where the coal is mined by hand, exclusive machine mining and where both methods are used, respectively.



TABLE 62—DISTRIBUTION OF POWDER IN ALL MINES, BY DISTRICTS, FOR  
BLASTING DOWN COAL

Districts	Number of mines	Number of miners	Number of kegs of powder	Number of tons of coal	Number of kegs per man	Number of tons per keg
First.....	21	1, 232	22, 387	878, 551	18. 66	39. 24
Shipping.....	9	1, 064	13, 824	666, 506	12. 99	48. 21
Local.....	12	168	8, 563	212, 045	50. 97	24. 75
Second.....	47	527	28, 442	535, 851	53. 78	18. 84
Shipping.....	6	314	23, 428	419, 487	74. 61	17. 91
Local.....	41	213	5, 014	116, 364	23. 54	23. 21
Third.....	82	1, 695	91, 978	1, 611, 137	54. 26	17. 52
Shipping.....	25	1, 384	82, 119	1, 455, 285	59. 33	17. 72
Local.....	57	311	9, 859	155, 852	31. 70	15. 81
Fourth.....	123	2, 355	123, 562	2, 529, 667	52. 51	20. 47
Shipping.....	19	2, 077	116, 907	2, 397, 374	56. 28	20. 52
Local.....	104	278	6, 655	132, 293	24. 11	19. 88
Fifth.....	57	3, 129	141, 877	5, 224, 518	45. 34	36. 82
Shipping.....	31	2, 985	135, 969	5, 058, 480	45. 55	37. 20
Local.....	26	144	5, 908	166, 038	41. 03	28. 10
Sixth.....	39	4, 908	257, 928	6, 218, 380	52. 55	24. 11
Shipping.....	34	4, 825	254, 130	6, 133, 876	52. 67	24. 14
Local.....	5	83	3, 798	84, 504	45. 76	22. 25
Seventh.....	22	1, 724	88, 104	7, 407, 667	51. 10	84. 08
Shipping.....	20	1, 713	87, 796	7, 403, 712	51. 24	84. 33
Local.....	2	11	308	3, 955	28. 00	12. 84
Eighth.....	39	2, 300	114, 501	6, 345, 792	47. 78	55. 42
Shipping.....	29	2, 239	112, 986	6, 289, 805	50. 41	55. 66
Local.....	10	61	1, 515	55, 987	24. 84	36. 96
Ninth.....	61	2, 262	100, 283	4, 712, 206	44. 34	46. 81
Shipping.....	49	2, 178	97, 671	4, 622, 352	44. 84	47. 22
Local.....	12	84	2, 612	89, 854	31. 10	34. 40
Tenth.....	64	1, 951	65, 087	3, 365, 136	32. 85	51. 76
Shipping.....	40	1, 879	62, 247	3, 317, 383	32. 60	53. 29
Local.....	24	72	2, 840	47, 753	39. 43	16. 81
Eleventh.....	44	660	74, 181	6, 935, 282	112. 39	93. 49
Shipping.....	28	614	72, 986	6, 904, 199	118. 89	94. 60
Local.....	16	46	1, 195	31, 083	25. 98	26. 00
Twelfth.....	48	4, 334	201, 052	7, 710, 194	46. 39	38. 35
Shipping.....	35	4, 287	200, 124	7, 685, 189	46. 65	38. 40
Local.....	13	47	928	25, 005	17. 62	26. 95
The State.....	647	27, 077	1, 309, 382	53, 474, 481	48. 32	40. 88
Shipping.....	325	25, 559	1, 260, 187	52, 353, 648	49. 27	41. 58
Local.....	322	1, 518	49, 195	1, 120, 833	32. 41	22. 78



TABLE 63—DISTRIBUTION OF POWDER IN ALL SHIPPING MINES BY DISTRICTS

Districts	Number of mines	Number of miners	Number of tons	Number of kegs of powder	Number of kegs per man	Number of tons per keg
First.....	9	1, 064	666, 506	13, 824	12.99	48.21
Second.....	6	314	419, 487	23, 428	74.61	17.91
Third.....	25	1, 384	1, 455, 285	82, 119	47.63	17.72
Fourth.....	19	2, 077	2, 397, 374	116, 907	56.28	20.52
Fifth.....	31	2, 985	5, 058, 480	135, 969	45.55	37.20
Sixth.....	34	4, 825	6, 133, 876	254, 130	52.67	24.14
Seventh.....	20	1, 713	7, 403, 712	87, 796	51.24	84.33
Eighth.....	29	2, 239	6, 289, 805	112, 986	50.41	55.66
Ninth.....	40	2, 178	4, 622, 352	97, 671	44.84	47.22
Tenth.....	40	1, 879	3, 317, 383	62, 247	32.60	54.16
Eleventh.....	28	614	6, 904, 199	72, 986	118.86	94.60
Twelfth.....	35	4, 287	7, 685, 189	200, 124	46.65	38.40
Total.....	325	25, 559	52, 353, 648	1, 260, 187	49.31	41.55

TABLE 64—CONSUMPTION OF POWDER IN SHIPPING MINES, HAND MINING EXCLUSIVELY, BY DISTRICTS

Districts	Number of mines	Number of miners	Number of tons	Number of kegs of powder	Number of kegs per man	Number of tons per keg
First.....	9	1, 064	666, 506	13, 824	12.99	48.21
Second.....	4	210	252, 220	14, 457	68.84	17.45
Third.....	20	1, 188	1, 217, 885	74, 257	62.51	20.46
Fourth.....	16	1, 788	1, 713, 484	91, 664	51.27	18.69
Fifth.....	25	2, 590	3, 109, 035	97, 912	37.91	31.75
Sixth.....	32	4, 825	5, 178, 805	244, 079	50.59	21.22
Seventh.....	7	1, 249	1, 385, 434	33, 691	26.97	41.12
Eighth.....	12	1, 541	1, 570, 198	58, 603	38.03	26.79
Ninth.....	34	1, 958	2, 035, 473	70, 560	36.04	28.85
Tenth.....	22	1, 110	785, 827	27, 179	24.48	31.49
Eleventh.....	4	257	217, 968	8, 599	33.46	25.35
Twelfth.....	17	2, 307	2, 417, 366	80, 351	34.83	30.10
Total.....	202	20, 087	20, 550, 201	815, 176	40.58	25.09

TABLE 65—CONSUMPTION OF POWDER IN SHIPPING MINES, MACHINE MINING EXCLUSIVELY, BY DISTRICTS

Districts	Number of mines	Number of machines	Number of miners	Number of tons	Number of kegs of powder	Number of kegs per man	Number of tons per keg
Second.....	1	2	-----	9, 268	145	-----	63.94
Third.....	2	12	94	80, 016	1, 318	14.00	60.71
Fifth.....	3	26	56	364, 576	4, 459	79.71	81.67
Sixth.....	2	28	-----	955, 071	10, 051	-----	85.70
Seventh.....	11	254	260	5, 351, 153	41, 034	157.83	131.14
Eighth.....	11	141	300	3, 579, 389	36, 606	120.02	97.78
Ninth.....	10	115	122	1, 766, 777	16, 530	133.31	106.88
Tenth.....	10	95	328	1, 423, 271	17, 151	49.24	82.98
Eleventh.....	18	173	35	4, 277, 510	42, 181	1, 139.77	101.41
Twelfth.....	4	87	288	1, 036, 861	11, 637	40.41	89.10
Total.....	72	933	1, 483	18, 873, 892	181, 112	119.88	104.21

TABLE 66—CONSUMPTION OF POWDER IN SHIPPING MINES, HAND AND MACHINE MINING COMBINED, BY DISTRICTS

Districts	Number of mines	Number of machines	Number of miners	Number of tons	Number of kegs of powder	Number of kegs per man	Number of tons per keg
Second.....	1	1	104	157,999	8,826	84.87	17.90
Third.....	3	8	102	157,384	6,544	64.14	24.06
Fourth.....	3	31	289	683,890	25,243	87.38	27.09
Fifth.....	3	40	339	1,584,869	33,598	99.11	47.14
Seventh.....	2	27	204	637,125	13,071	64.07	48.74
Eighth.....	6	107	398	1,140,218	17,777	44.67	64.20
Ninth.....	5	51	98	820,102	10,581	107.81	77.51
Tenth.....	8	49	441	1,108,285	17,917	40.63	61.87
Eleventh.....	6	91	322	2,408,721	222,206	68.96	108.47
Twelfth.....	14	167	1,692	4,230,962	108,136	63.91	39.13
Total.....	51	572	3,989	12,929,555	263,899	66.15	48.99

## BLASTING COAL

Table 67 shows, by districts, the method of mining in the shipping mines of the State.

TABLE 67—METHOD OF MINING IN SHIPPING MINES

Districts	Blasted from solid		Undercut before blasting		Both methods used		Total	
	Mines	Tons	Mines	Tons	Mines	Tons	Mines	Tons
First.....	16	1,560,561	3	323,564	2	88,400	21	1,972,525
Second.....	13	2,199,075	1	9,268	.....	.....	14	2,208,343
Third.....	26	2,451,334	4	343,338	3	157,384	33	2,952,056
Fourth.....	16	1,920,509	.....	.....	3	476,865	19	2,397,374
Fifth.....	28	3,198,987	5	610,635	3	1,597,319	36	5,406,941
Sixth.....	33	5,254,110	2	955,071	.....	.....	35	6,209,181
Seventh.....	6	771,036	15	6,607,185	1	242,122	22	7,620,343
Eighth.....	13	1,807,083	10	3,342,504	6	1,140,218	29	6,289,805
Ninth.....	35	2,048,269	11	1,796,350	4	792,933	50	4,637,552
Tenth.....	23	986,272	12	1,734,135	5	596,976	40	3,317,383
Eleventh.....	4	217,968	29	7,927,663	4	1,673,093	37	9,818,724
Twelfth.....	17	2,417,366	4	1,036,861	14	4,230,962	35	7,685,189
Total.....	230	24,832,570	96	24,686,574	45	10,996,272	371	60,515,416

## GENERAL SUMMARY

Tables 68, 69, 70 and 71 give a general summary of the items embodied in this report.

TABLE 68—SUMMARY BY DISTRICTS, SHIPPING AND LOCAL MINES,  
NUMBER OF MINES AND PRODUCTION BY GRADES

Districts and mines	Number of mines	Total tons of coal produced	Graded product—tons of—					
			Mine run	Lump	Egg	Nut	Pea	Slack or waste
First.....	51	2,250,206	495,118	969,948	282,194	25,530	388,493	88,923
Shipping.....	21	1,972,525	277,849	924,599	282,194	25,530	379,535	82,818
Local.....	30	277,681	217,269	45,349	.....	.....	8,958	6,105
Second.....	99	2,392,316	90,687	1,693,875	168,499	67,420	311,241	60,594
Shipping.....	14	2,208,343	78,283	1,544,676	168,499	67,420	303,651	45,814
Local.....	85	183,973	12,404	149,199	.....	.....	7,590	14,780
Third.....	94	3,109,287	777,092	1,513,492	193,320	30,983	392,825	201,575
Shipping.....	33	2,952,056	707,284	1,430,525	193,320	30,983	390,578	199,366
Local.....	61	157,231	69,808	82,967	.....	.....	2,247	2,209
Fourth.....	191	2,575,195	293,880	821,711	715,762	72,896	607,665	63,281
Shipping.....	19	2,397,374	244,613	696,566	715,762	72,896	607,665	59,872
Local.....	172	177,821	49,267	125,145	.....	.....	.....	3,409
Fifth.....	67	5,580,378	1,933,187	1,924,332	55,076	274,246	1,092,338	301,209
Shipping.....	36	5,406,941	1,790,239	1,901,768	55,076	274,246	1,092,338	293,274
Local.....	31	173,437	142,948	22,554	.....	.....	.....	7,935
Sixth.....	40	6,293,685	1,239,451	2,387,432	783,243	168,828	1,613,303	101,428
Shipping.....	35	6,209,181	1,220,625	2,352,594	783,243	168,828	1,582,463	101,428
Local.....	5	84,504	18,826	34,838	.....	.....	20,840	.....
Seventh.....	22	7,632,256	2,795,558	1,570,370	1,211,833	23,861	1,527,468	503,166
Shipping.....	22	7,620,343	2,793,769	1,561,261	1,210,893	23,861	1,527,393	503,166
Local.....	5	11,913	1,789	9,109	940	.....	75	.....
Eighth.....	40	6,347,492	1,049,839	2,480,061	844,376	203,277	1,378,108	391,831
Shipping.....	29	6,289,805	1,017,975	2,459,165	844,376	203,277	1,378,108	386,904
Local.....	11	57,687	31,864	20,896	.....	.....	.....	4,927
Ninth.....	65	4,740,212	882,128	2,461,803	134,698	98,584	1,104,369	58,630
Shipping.....	50	4,637,552	800,794	2,443,185	134,698	98,584	1,104,369	55,922
Local.....	15	102,660	81,334	18,618	.....	.....	.....	2,708
Tenth.....	65	3,365,176	1,525,032	810,521	222,045	121,620	646,693	39,265
Shipping.....	40	3,317,383	1,501,959	792,275	222,045	121,375	640,464	39,265
Local.....	25	47,793	23,073	18,246	.....	245	6,229	.....
Eleventh.....	53	9,849,807	1,025,508	3,228,296	1,365,864	986,983	2,904,207	338,949
Shipping.....	37	9,818,724	1,019,239	3,209,880	1,365,864	986,983	2,897,809	338,949
Local.....	16	31,083	6,269	18,416	.....	.....	6,398	.....
Twelfth.....	48	7,710,194	2,872,510	988,294	843,070	1,055,837	1,767,827	182,656
Shipping.....	35	7,685,189	2,867,200	975,200	843,070	1,055,837	1,761,226	182,656
Local.....	13	25,005	5,310	13,094	.....	.....	6,601	.....
The State.....	840	61,846,204	14,979,990	20,850,125	6,819,980	3,130,065	13,734,537	2,331,507
Shipping.....	371	60,515,416	14,319,829	20,291,694	6,819,040	3,129,820	13,665,599	2,289,434
Local.....	469	1,330,788	660,161	558,031	940	245	68,938	42,073

TABLE 69—SUMMARY BY DISTRICTS OF THE TOTAL TONS, DISPOSITION OF THE TOTAL OUTPUT, ANIMALS UNDERGROUND AND NUMBER OF MINES LIGHTED BY ELECTRICITY

Districts and mines	Total tons produced	Disposition of output—tons				Animals underground		Mines lighted by electricity
		Shipped from mine	Supplied to locomotives	Sold to local trade	Consumed and wasted at the mines	Horses	Mules	
First.....	2,250,206	1,609,594	79,597	230,715	330,300	.....	429	12
Shipping.....	1,972,525	1,609,594	79,597	129,380	153,954	.....	429	12
Local.....	277,681	.....	.....	101,335	176,346	.....	.....	.....
Second.....	2,392,316	2,021,917	38,295	219,702	112,402	.....	572	10
Shipping.....	2,208,343	2,021,917	38,295	41,060	107,071	.....	572	10
Local.....	183,973	.....	.....	178,642	5,331	.....	.....	.....
Third.....	3,109,287	2,697,029	60,015	239,714	112,493	25	393	17
Shipping.....	2,952,056	2,697,029	60,015	98,404	96,572	25	393	17
Local.....	157,231	.....	.....	141,310	15,921	.....	.....	.....
Fourth.....	2,575,195	2,285,728	33,917	189,796	65,754	.....	323	12
Shipping.....	2,397,374	2,285,728	33,917	14,934	62,795	.....	323	12
Local.....	177,821	.....	.....	174,862	2,959	.....	.....	.....
Fifth.....	5,580,378	4,782,065	123,114	281,665	393,534	.....	442	25
Shipping.....	5,406,941	4,782,065	123,114	182,906	318,856	.....	442	25
Local.....	173,437	.....	.....	98,759	74,678	.....	.....	.....
Sixth.....	6,293,685	5,642,744	77,566	340,910	232,465	12	5,805	26
Shipping.....	6,209,181	5,642,744	77,566	265,376	223,495	12	5,805	26
Local.....	84,504	.....	.....	75,534	8,970	.....	.....	.....
Seventh.....	7,632,256	7,112,684	72,004	157,796	289,772	.....	421	21
Shipping.....	7,620,343	7,112,684	72,004	146,283	289,372	.....	421	21
Local.....	11,913	.....	.....	11,513	400	.....	.....	.....
Eighth.....	6,347,492	5,828,906	161,580	148,996	208,010	.....	477	24
Shipping.....	6,289,805	5,828,906	161,580	109,043	190,276	.....	477	24
Local.....	57,687	.....	.....	39,953	17,734	.....	.....	.....
Ninth.....	4,740,212	4,234,581	101,271	212,647	191,813	.....	374	20
Shipping.....	4,637,552	4,234,581	101,271	115,329	186,371	.....	374	20
Local.....	102,660	.....	.....	97,218	5,442	.....	.....	.....
Tenth.....	3,365,176	2,966,332	128,412	139,730	130,702	.....	291	15
Shipping.....	3,317,383	2,966,332	128,412	94,470	128,169	.....	291	15
Local.....	47,793	.....	.....	45,260	2,533	.....	.....	.....
Eleventh.....	9,849,807	9,464,381	28,643	113,840	242,943	.....	540	33
Shipping.....	9,818,724	9,464,381	28,643	84,092	241,608	.....	540	33
Local.....	31,083	.....	.....	29,748	1,335	.....	.....	.....
Twelfth.....	7,710,194	7,326,413	120	69,722	313,939	.....	488	22
Shipping.....	7,685,189	7,326,413	120	45,592	313,064	.....	488	22
Local.....	25,005	.....	.....	24,130	875	.....	.....	.....
The State.....	61,846,204	55,972,374	904,570	2,345,133	2,624,127	37	10,555	237
Shipping.....	60,515,416	55,972,374	904,570	1,326,869	2,311,603	37	10,555	237
Local.....	1,330,788	.....	.....	1,018,264	312,524	.....	.....	.....

TABLE 70—SUMMARY BY DISTRICT, TONS MINED BY HAND AND MACHINES, PRICE FOR MINING, MACHINES, POWDER

Districts and mines	Tons mined by—		Average price paid per ton for—		Machines		Powder	
	Hand	Machine	Hand mining	Machine mining	Number of mines using	Number in use	Used for blasting coal	For other purposes
First.....	2,070,245	179,961	\$0.903	\$0.63	2	5	22,387	421
Shipping.....	1,972,525	-----	\$0.896	-----	-----	5	13,824	330
Local.....	97,720	179,961	1.049	\$0.63	2	-----	8,563	91
Second.....	2,378,329	13,987	\$0.877	\$0.65	2	3	28,442	497
Shipping.....	2,194,356	13,987	\$0.866	\$0.65	2	3	23,428	497
Local.....	183,973	-----	1.001	-----	-----	-----	5,014	-----
Third.....	2,810,767	298,520	\$0.79	\$0.583	6	32	91,978	254
Shipping.....	2,653,536	298,520	\$0.789	\$0.583	6	32	82,119	254
Local.....	157,231	-----	0.807	-----	-----	-----	9,859	-----
Fourth.....	2,196,915	378,280	\$0.702	\$0.61	3	31	123,562	372
Shipping.....	2,019,094	378,280	\$0.68	\$0.61	3	31	116,907	372
Local.....	177,821	-----	0.959	-----	-----	-----	6,655	-----
Fifth.....	4,066,673	1,513,705	\$0.638	\$0.54	6	66	141,877	427
Shipping.....	3,893,236	1,513,705	\$0.636	\$0.54	6	66	135,969	427
Local.....	173,437	-----	0.665	-----	-----	-----	5,908	-----
Sixth.....	5,338,614	955,071	\$0.623	\$0.54	2	28	257,928	270
Shipping.....	5,254,110	955,071	\$0.623	\$0.54	2	28	254,130	270
Local.....	84,504	-----	0.626	-----	-----	-----	3,798	-----
Seventh.....	1,827,463	5,804,793	\$0.615	\$0.54	15	282	88,104	1,119
Shipping.....	1,820,550	5,799,793	\$0.613	\$0.54	13	281	87,796	1,119
Local.....	6,913	5,000	0.992	0.54	2	1	308	-----
Eighth.....	1,958,115	4,389,377	\$0.557	\$0.54	20	249	114,501	45
Shipping.....	1,904,928	4,384,877	\$0.597	\$0.54	19	248	112,986	45
Local.....	53,187	4,500	0.478	0.54	1	1	1,515	-----
Ninth.....	2,790,218	1,949,994	\$0.61	\$0.54	17	169	100,283	-----
Shipping.....	2,697,453	1,940,099	\$0.61	\$0.54	15	166	97,671	-----
Local.....	92,765	9,895	0.61	0.54	2	3	2,612	-----
Tenth.....	1,185,074	2,180,102	\$0.587	\$0.515	18	144	65,087	-----
Shipping.....	1,137,281	2,180,102	\$0.585	\$0.515	18	144	62,247	-----
Local.....	47,793	-----	0.624	-----	-----	-----	2,840	-----
Eleventh.....	626,720	9,223,087	\$0.569	\$0.498	34	426	74,181	158
Shipping.....	596,581	9,222,143	\$0.569	\$0.498	33	425	72,986	158
Local.....	30,139	944	0.508	0.42	1	1	1,195	-----
Twelfth.....	4,368,551	3,341,643	\$0.568	\$0.498	18	254	201,052	122
Shipping.....	4,343,546	3,341,643	\$0.568	\$0.498	18	254	200,124	122
Local.....	25,005	-----	0.70	-----	-----	-----	928	-----
The State.....	31,617,684	30,228,520	\$0.669	\$0.521	143	1,689	1,309,382	3,685
Shipping.....	30,487,196	30,028,220	\$0.664	\$0.521	135	1,678	1,260,187	3,594
Local.....	1,130,488	200,300	0.802	0.619	8	11	49,195	91

TABLE 71—SUMMARY BY DISTRICTS, EMPLOYEES, DAYS IN OPERATION, AND CASUALTIES

Districts and mines	Total number employees	Employees				Average days of operation	Casualties	
		Miners	Others under ground	Boys under ground	All above ground		Killed	Injured
First.....	4, 857	3, 448	875	76	458	207	3	80
Shipping.....	4, 395	3, 109	828	71	387	210	3	74
Local.....	462	339	47	5	71	205	.....	6
Second.....	4, 704	3, 467	781	64	392	155	6	128
Shipping.....	4, 230	3, 076	781	57	316	198	6	127
Local.....	474	391	.....	7	76	148	.....	1
Third.....	5, 165	3, 554	1, 036	102	473	167	12	60
Shipping.....	4, 820	3, 280	1, 013	98	429	210	11	60
Local.....	345	274	23	4	44	144	1	.....
Fourth.....	3, 742	2, 519	863	41	319	166	2	18
Shipping.....	3, 235	2, 077	863	41	254	196	2	18
Local.....	507	442	.....	.....	65	163	.....	.....
Fifth.....	7, 096	3, 627	2, 704	125	640	188	24	99
Shipping.....	6, 827	3, 433	2, 704	125	565	187	24	99
Local.....	269	194	.....	.....	75	190	.....	.....
Sixth.....	7, 862	5, 018	2, 021	154	669	179	16	40
Shipping.....	7, 739	4, 935	2, 013	154	637	180	16	38
Local.....	123	83	8	.....	32	172	.....	2
Seventh.....	7, 644	2, 018	4, 864	159	603	177	14	99
Shipping.....	7, 614	1, 995	4, 863	159	597	185	14	99
Local.....	30	23	1	.....	6	144	.....	.....
Eighth.....	7, 621	2, 304	4, 480	187	650	184	17	167
Shipping.....	7, 531	2, 239	4, 480	185	627	176	17	167
Local.....	90	65	.....	2	23	206	.....	.....
Ninth.....	5, 707	2, 282	2, 869	66	490	160	9	41
Shipping.....	5, 572	2, 178	2, 869	66	459	142	9	41
Local.....	135	104	.....	.....	31	224	.....	.....
Tenth.....	4, 918	1, 953	2, 393	101	471	156	8	27
Shipping.....	4, 826	1, 879	2, 391	101	455	145	7	27
Local.....	92	74	2	.....	16	174	1	.....
Eleventh.....	10, 974	877	9, 031	141	925	177	41	200
Shipping.....	10, 913	831	9, 030	139	913	199	41	200
Local.....	61	46	1	2	12	125	.....	.....
Twelfth.....	9, 207	4, 334	3, 745	214	914	162	23	66
Shipping.....	9, 153	4, 287	3, 742	214	910	179	23	66
Local.....	54	47	3	.....	4	115	.....	.....
The State.....	79, 497	35, 401	35, 662	1, 430	7, 004	170	175	1, 025
Shipping.....	76, 855	33, 319	35, 577	1, 410	6, 549	179	173	1, 016
Local.....	2, 642	2, 082	85	20	455	163	2	9

## PHYSICAL CHARACTERISTICS

Table 72 shows the physical characteristics of all the mines arranged by counties in alphabetical order







TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
FULTON COUNTY											
1	Big Creek Coal Co., No. 2.....	St. David.....	5	60	4.6	Dr.	St.	P. R.	Motor	Both.	265,314
2	Maplewood Col. Co., No. 2.....	Farmington.....	5	155	4.0	Sh.	do.	do.	do.	do.	229,742
3	Monmouth C. M. Co., No. 1.....	Brereton.....	5	158	4.6	do.	do.	do.	do.	Hd.	215,318
4	Alden Coal Co., No. 6.....	Norris.....	5	176	4.0	do.	do.	do.	Mule.	do.	209,252
5	Big Creek Coal Co., No. 4.....	Dunfermline.....	5	90	4.8	do.	do.	do.	Motor	Both.	188,834
6	Canton Coal M. Co.....	Canton.....	5	61	4.0	do.	do.	do.	do.	Hd.	169,474
7	Simmons Coal Co.....	do.....	5	126	4.10	do.	do.	do.	do.	do.	153,655
8	Eagle Mining Co.....	do.....	5	100	5.0	do.	do.	do.	do.	do.	147,188
9	Norris Coal M. Co.....	Norris.....	5	42	4.2	do.	do.	do.	Mule.	do.	139,253
10	Silver Creek Col. Co., No. 1.....	Farmington.....	5	50	4.0	do.	do.	do.	do.	do.	128,367
11	Star Coal Co., No. 3.....	Cuba.....	5	34	4.10	do.	do.	do.	do.	do.	126,670
12	National C. M. Co.....	Farmington.....	5	100	4.5	do.	do.	do.	do.	do.	90,117
13	Big Creek Coal Co., No. 3.....	Cuba.....	5	50	4.8	do.	do.	do.	do.	do.	89,765
14	Star Coal Co., No. 1.....	do.....	5	42	4.10	do.	do.	do.	Motor	do.	61,260
15	Alden Coal Co., No. 5.....	Farmington.....	5	171	4.0	do.	do.	do.	Mule.	do.	58,361
16	Star Coal Co., No. 2.....	Cuba.....	5	48	4.8	Sl.	do.	do.	Cable	do.	56,434
17	Spoon River Coal Co., No. 1.....	Mayton.....	5	40	4.8	Sh.	do.	do.	Mule.	do.	46,584
18	Coal Creek M. Co., Parville.....	Fairview.....	5	48	4.8	Dr.	Ho.	do.	do.	do.	22,717
19	Star Coal Co.....	Fiatt.....	5	60	4.8	Sh.	St.	do.	do.	do.	5,069
20	Neil Baxter.....	Canton.....	5	48	4.8	Sl.	do.	do.	Cable	do.	7,875
21	Westerby Bros. Gooden.....	Farmington.....	5	125	4.6	Sh.	do.	do.	Mule.	do.	7,650
22	Riverside Coal Co.....	Ellisville.....	1	40	4.6	do.	Ho.	do.	Hd.	do.	6,630
23	Jack Walch.....	Cuba.....	5	45	5.0	Sl.	do.	do.	do.	do.	5,675
24	Joe McLaughlin.....	Canton.....	5	32	4.8	Sh.	St.	do.	do.	do.	5,440
25	Henry Vonach.....	Lewistown.....	1	30	6.5	Sl.	Ho.	do.	do.	do.	4,600
26	Eclipse Coal Co.....	Astoria.....	5	40	5.0	Sh.	St.	do.	do.	do.	3,600
27	Thomas Preston.....	Canton.....	5	150	4.10	Sl.	Ho.	do.	do.	do.	3,606
28	Ross Parr.....	Astoria.....	5	40	5.0	Sh.	do.	do.	do.	do.	3,525
29	C. J. Falkenstein.....	do.....	5	38	5.0	do.	do.	do.	do.	do.	3,250
30	Jas. Yocum.....	Lewistown.....	2	45	3.8	do.	do.	do.	do.	do.	3,216
31	W. D. Landis.....	Canton.....	5	48	4.8	Dr.	do.	do.	do.	do.	2,912
32	W. C. Anderson.....	do.....	5	29	4.10	Sh.	do.	do.	do.	do.	2,800
33	O. H. Standard.....	do.....	5	30	5.0	do.	do.	do.	do.	do.	2,400
34	Sy. Hilton.....	Cuba.....	5	40	5.0	Dr.	do.	do.	do.	do.	2,125
35	Frank Walnut.....	Canton.....	5	300	4.10	Sl.	do.	do.	do.	do.	2,000
36	Elmer DeLong.....	Fairview.....	6	50	5.0	Dr.	Hd.	do.	do.	do.	1,900
37	Bath Bros.....	St. David.....	5	40	4.8	do.	do.	do.	do.	do.	1,800
38	Jas. Conn.....	Summum.....	5	38	5.0	Sh.	Ho.	do.	do.	do.	1,800
39	E. E. Bishop.....	Cuba.....	5	40	5.0	Dr.	do.	do.	do.	do.	1,800
40	Nichlas Bennett.....	do.....	5	35	4.10	Sl.	do.	do.	do.	do.	1,750
41	W. C. Morgart.....	Canton.....	5	40	5.0	Dr.	Hd.	do.	do.	do.	1,620
42	John Johnson.....	St. David.....	5	75	4.8	do.	do.	do.	do.	do.	1,600
43	Ed. Clarkson.....	Fairview.....	5	40	4.6	do.	do.	do.	do.	do.	1,600
44	Frank Allin.....	Canton.....	5	60	5.0	do.	do.	do.	do.	do.	1,600
45	O. W. Davis.....	Lewistown.....	2	60	3.0	Sh.	Ho.	do.	Mule.	do.	1,542
46	Wm. Hubble.....	Avon.....	2	40	3.0	do.	do.	do.	do.	do.	1,500
47	Frank Hubble.....	do.....	5	60	5.0	Sl.	do.	do.	do.	do.	1,500
48	A. J. Gunnnett.....	Fairview.....	5	50	4.8	Dr.	Hd.	do.	do.	do.	1,500
49	Bayley & Bowker.....	Canton.....	5	133	4.8	Sl.	St.	do.	do.	do.	1,470
50	W. B. Lee.....	Ipava.....	5	35	5.0	do.	Ho.	do.	do.	do.	1,425
51	D. P. Row.....	Table Grove.....	5	60	5.0	Dr.	do.	do.	do.	do.	1,275
52	Joseph McClamant.....	do.....	5	60	5.0	do.	do.	do.	do.	do.	1,275
53	C. F. Romden.....	Cuba.....	5	40	5.0	do.	Hd.	do.	do.	do.	1,260
54	Fred Na neker.....	Marietta.....	5	35	4.0	Sh.	Ho.	do.	do.	do.	1,250
55	D. G. Copelinger.....	Cuba.....	5	80	5.0	Dr.	Hd.	do.	Hd.	do.	1,210
56	Lem Bitner.....	Glasford.....	5	160	4.4	Sl.	Ho.	do.	Mule.	do.	1,206
57	L. D. Huggins.....	Canton.....	5	160	4.8	Dr.	Hd.	do.	Hd.	do.	1,200
58	Wm. Johnson.....	Cuba.....	5	75	4.8	do.	do.	do.	do.	do.	1,125
59	Memmens Bros.....	Breeds.....	5	85	4.10	do.	do.	do.	do.	do.	1,120
60	John Whitehead.....	Maple Mills.....	5	60	4.10	do.	do.	do.	do.	do.	1,070
61	Chas. Hall.....	Astoria.....	5	50	4.10	do.	do.	do.	do.	do.	1,000
62	Joseph Wilson.....	do.....	2	40	2.6	do.	do.	do.	do.	do.	980
63	Silas Simpson.....	Cuba.....	5	60	4.6	do.	do.	do.	do.	do.	975
64	Wheatcraft & Son.....	Fairview.....	5	60	5.0	do.	do.	do.	do.	do.	925
65	E. C. Angle.....	Cuba.....	5	45	5.0	do.	do.	do.	do.	do.	900
66	Wm. Martin.....	do.....	5	50	5.0	do.	do.	do.	do.	do.	875

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Geological number of seam	Physical character of mines							Total tons
				Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
FULTON COUNTY—Concluded											
67	John Taylor	Glasford	5	60	4.6	Dr.	Ho.	P. R.	Hd.	Hd.	860
68	John Stufflebeam	Lewistown	5	60	3.0	do.	Hd.	do.	do.	do.	785
69	Geo. Stambaugh	Summum	5	50	4.8	do.	do.	do.	do.	do.	750
70	Ed. Stanley	Maple Mills	5	35	5.0	do.	Ho.	do.	do.	do.	750
71	Lafe Sweringer	Table Grove	2	60	3.0	do.	Hd.	do.	do.	do.	750
72	Jess Lindsay	Lewistown	2	40	3.0	do.	do.	do.	do.	do.	725
73	J. W. Williams	Fiatt	5	60	5.0	do.	do.	do.	do.	do.	725
74	Johnson & Lee	Breeds	5	5	5.0	do.	do.	do.	do.	do.	700
75	Bartal Zabarac	t. David	5	60	4.8	do.	do.	do.	do.	do.	700
76	Chas. Falkurath	Marietta	5	25	3.4	Sl.	do.	do.	do.	do.	700
77	Chas. Taylor	Avon	5	70	5.0	do.	do.	do.	do.	do.	700
78	Henry Vice	Fairview	5	75	4.8	Dr.	do.	do.	do.	do.	692
79	C. W. Dair	Banner	5	60	5.0	do.	do.	do.	do.	do.	650
80	W. F. McBride	Fairview	5	60	5.0	Sl.	do.	do.	do.	do.	650
81	Will A. Sheets	London Mills	5	30	4.4	Dr.	do.	do.	do.	do.	640
82	Chas. Bitner	Breeds	5	60	5.0	do.	do.	do.	do.	do.	625
83	White & Price	Canton	5	65	4.10	do.	do.	do.	do.	do.	620
84	John Hall	do.	5	45	5.0	do.	do.	do.	do.	do.	600
85	Morris & Wack	Norris	5	5	5.0	do.	do.	do.	do.	do.	606
86	N. C. Morgan	Cuba	5	45	4.5	do.	do.	do.	do.	do.	550
87	Geo. Vice	Fiatt	5	60	5.0	do.	do.	do.	do.	do.	550
88	Frank Kruzan	Ipava	5	40	3.0	do.	do.	do.	do.	do.	525
89	Don Valentine	Summum	5	40	5.0	do.	do.	do.	do.	do.	525
90	B. F. Gaskell	Canton	6	5	5.0	do.	do.	do.	Mule	do.	500
91	Sylvester Wade	do.	5	40	4.8	do.	Ho.	do.	Hd.	do.	500
92	Prentes Weaver	Avon	5	40	3.6	do.	Hd.	do.	do.	do.	500
93	E. H. Miller	Marietta	5	50	3.2	do.	do.	do.	do.	do.	480
94	Will Martin	Cuba	5	75	5.0	do.	do.	do.	do.	do.	475
95	Furnace & Dimond	Astoria	5	75	3.6	do.	do.	do.	do.	do.	450
96	L. Crusen	Lewistown	5	65	3.4	do.	do.	do.	do.	do.	425
97	W. E. Hornbeck	Rapatee	5	9	4.6	Sl.	Ho.	do.	do.	do.	420
98	Birt Brush	Marietta	5	60	2.6	Dr.	Hd.	do.	do.	do.	420
99	Petter Clarry	Middle Grove	6	40	5.0	do.	do.	do.	do.	do.	400
100	B. W. Wright	Breeds	5	65	5.0	do.	do.	do.	do.	do.	400
101	Frank Foutch	Astoria	2	60	2.6	do.	do.	do.	do.	do.	375
102	J. G. Hensley	Marietta	2	30	2.4	do.	do.	do.	do.	do.	360
103	Dan Bollinger	Cuba	5	80	5.0	do.	do.	do.	do.	do.	350
104	Robb & Sons	Norris	6	40	5.0	Sl.	St.	do.	do.	do.	350
105	L. Clark	Lewistown	2	65	3.0	Dr.	Hd.	do.	do.	do.	350
106	Geo. Velett	Marietta	2	30	2.3	do.	do.	do.	do.	do.	320
107	John Daniel	do.	2	30	2.3	do.	do.	do.	do.	do.	300
108	L. J. Grove	Astoria	2	35	3.4	do.	do.	do.	do.	do.	300
109	J. H. Foutch	Maple Mills	5	60	4.6	do.	do.	do.	do.	do.	300
110	J. R. Collins	Lewistown	2	60	3.4	do.	do.	do.	do.	do.	285
111	Hebert Wilcoxon	do.	2	60	3.4	do.	do.	do.	do.	do.	275
112	Martin Smith	Marietta	2	65	2.6	do.	do.	do.	do.	do.	275
113	Peter Westerfield	Canton	5	25	5.0	do.	do.	do.	do.	do.	260
114	Will Dilts	Fairview	6	40	5.0	do.	do.	do.	do.	do.	250
115	Richard Hedge	Breeds	5	75	4.8	do.	do.	do.	do.	do.	250
116	H. A. Wilson	Cuba	5	40	5.0	do.	do.	do.	do.	do.	225
117	J. E. Johnson	Canton	5	30	4.10	do.	do.	do.	do.	do.	200
118	Sim Johnson	Lewistown	2	65	2.6	do.	do.	do.	do.	do.	175
119	John Ratcliff	Astoria	5	45	5.0	do.	do.	do.	do.	do.	150
120	Richard James	do.	2	40	2.6	do.	do.	do.	do.	do.	125
121	J. R. Goodman	Lewistown	2	60	2.6	do.	do.	do.	do.	do.	125
122	Chas. Cole	Avon	5	40	3.6	do.	do.	do.	do.	do.	120
123	J. H. Pollett	Cuba	5	30	5.0	do.	do.	do.	do.	do.	100
124	Harvey Johnson	Breeds	5	65	5.0	do.	do.	do.	do.	do.	75
125	D. B. King	Marietta	2	70	2.6	do.	do.	do.	do.	do.	55
126	Joseph Bartley	Canton	5	40	4.10	do.	do.	do.	do.	do.	21
127	John Dick	do.	5	70	4.10	do.	do.	do.	do.	do.	18
128	C. H. Dean	Marietta	5	40	2.6	do.	do.	do.	do.	do.	15
129	Guy Muchoft	Fiatt	5	60	5.0	do.	do.	do.	do.	do.	14
Total—129 mines											2,533,079

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
GALLATIN COUNTY											
1	Hickory Hill Coal Co.	Equality	5	...	4.8	Sl.	St.	P. R.	Cable	Hd.	38,677
2	Gallatin C. & C. Co., No. 1	do.	5	90	4.10	Sh.	do.	do.	Mule	do.	21,960
3	Crescent Coal Co., E. S.	do.	5	40	4.8	do.	do.	do.	do.	Mac.	8,102
4	W. R. Chinn	do.	6	18	4.4	Dr.	do.	do.	do.	Hd.	3,700
5	Dempsey & Wathen Bros.	do.	6	53	4.6	Sh.	do.	do.	do.	do.	2,985
6	R. J. Mitchell	Shawneetown	6	...	4.0	Dr.	Ho.	do.	do.	do.	1,160
7	Wm. Strong	do.	6	...	3.10	do.	do.	do.	do.	do.	880
8	W. H. McLain	Equality	6	20	4.3	Sh.	do.	do.	Hd.	do.	635
Total—8 mines											78,099
GREENE COUNTY											
1	Kincaid & Mitchell	Greenfield	6	60	5.6	Sh.	Ho.	P. R.	Hd.	Hd.	3,845
Total—1 mine											3,845
GRUNDY COUNTY											
1	Chi., Wil. & V. Coal Co., No. 1	S. Wilmington	2	186	3.0	Sh.	St.	L. W.	Mule	Hd.	129,125
2	Chi., Wil. & V. Coal Co., No. 3	do.	2	187	3.0	do.	do.	do.	do.	do.	123,622
3	Big Four Wilm. Coal Co.	Coal City	2	100	3.3	do.	do.	do.	do.	do.	70,817
4	Wilmington Star M. Co., No. 7	do.	2	136	3.0	do.	do.	do.	do.	do.	50,670
5	Wilmington Star M. Co., No. 6	do.	2	126	3.0	do.	do.	do.	do.	do.	37,730
6	James Bell	Morris	2	72	3.0	do.	Ho.	P. R.	Hd.	do.	3,001
7	John Heather	do.	2	50	2.9	do.	do.	do.	do.	do.	2,700
8	Clayton Bros.	do.	2	50	2.4	do.	do.	do.	do.	do.	2,500
9	Wood Coal Co.	do.	2	48	3.0	do.	do.	do.	do.	do.	2,500
10	Byrnes & Fleming	do.	2	55	2.8	do.	do.	do.	do.	do.	2,300
11	William Hodson	do.	2	53	2.10	do.	do.	do.	do.	do.	1,950
12	John Stalker	do.	2	50	2.9	do.	do.	do.	do.	do.	600
Total—12 mines											427,515
HANCOCK COUNTY											
1	Meredith Bros.	Augusta	2	60	2.2	Sl.	Ho.	P. R.	Hd.	Hd.	2,822
Total—1 mine											2,822
HENRY COUNTY											
1	Kewanee Coal Co., No. 2	Kewanee	6	100	4.0	Sh.	St.	P. R.	Mule	Hd.	4,168
2	Fred Henry & Co.	do.	6	55	4.0	do.	do.	do.	do.	do.	11,800
3	Kewanee Co-op. Coal Co.	do.	6	60	4.0	do.	do.	do.	do.	do.	9,295
4	Grice & Co.	do.	6	45	4.0	do.	do.	do.	do.	do.	6,064
5	North Main Coal Co.	do.	6	60	4.0	do.	do.	do.	do.	do.	5,708
6	Mat Atkinson	do.	6	20	4.0	do.	do.	do.	do.	do.	3,232
7	Herman Hintz & Bro	Geneseo	6	50	4.0	do.	do.	do.	do.	do.	2,960
8	Waterloo Coal Co.	Kewanee	6	50	4.0	do.	do.	do.	do.	do.	2,150
9	North Eastern Coal Co.	do.	6	45	4.2	do.	do.	do.	do.	do.	2,094
10	Jos. Engle & Co.	do.	6	30	4.0	do.	dc.	do.	do.	do.	2,000
11	Ernest Groy	do.	6	40	4.4	do.	do.	do.	do.	do.	1,640
12	Donahoe Coal Co.	Moline	6	25	4.0	do.	do.	do.	do.	do.	1,100
13	James Kemerling & Son	Kewanee	6	20	4.0	do.	do.	do.	do.	do.	1,050
14	Todd Bros.	do.	6	25	4.0	do.	dc.	do.	do.	do.	750
15	Summerson & Fude	Coal City	6	...	4.0	do.	do.	do.	do.	do.	600
16	Wilson & Swan	Kewanee	6	40	4.4	do.	do.	do.	do.	do.	480
17	Fred Kershaw	Briar Bluff	6	...	3.0	Dr.	do.	do.	do.	do.	400
18	Maleon & Wilson	Kewanee	6	20	4.0	Sl.	do.	do.	do.	do.	320
19	Joseph Carter	do.	6	22	4.0	Sh.	do.	do.	do.	do.	310
20	D. O. Loy	Atkinson	6	20	3.0	do.	do.	dc.	do.	do.	300
21	Robert Kay	Briar Bluff	6	...	3.4	Dr.	do.	do.	do.	do.	150
22	Hodgett Bros	Kewanee	6	10	4.0	do.	do.	do.	do.	do.	80
Total—22 mines											56,151
JACKSON COUNTY											
1	Big Muddy C. & I. Co., No. 9.	Murphysboro	1&2	114	7.0	Sh.	St.	P. R.	Motor	Mac.	256,240
2	Muddy Val. M. Co., M. V.	Halldayboro	6	165	9.0	do.	do.	do.	Cable	Hd.	148,727
3	B. Muddy C. & I. Co., Harrison	Murphysboro	1&2	160	6.0	do.	do.	do.	Motor	Mac.	97,838

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
JACKSON COUNTY—Concluded											
4	Gartside Coal Co., No. 4.....	Murphysboro.....	1&2	140	5.0	Sh.	St.	P. R.	Mule.	Hd...	66,362
5	Gus Blair B. M. C. Co., No. 1.	do.....	1&2	138	6.0	do.	do.	do.	do.	Mac.	47,905
6	Kreikheimier C. Co., No. 1.	DeSoto.....	7	80	8.0	do.	do.	do.	Motor	Hd...	41,713
7	Gus Blair B. M. C. Co., No. 2.	Murphysboro.....	1&2	110	3.6	do.	do.	do.	Mule.	Mac.	41,008
8	DeSoto Peacock Coal Co., No. 1	DeSoto.....	7	40	12.0	do.	do.	do.	do.	Hd...	3,228
9	J. B. Wood.....	Carbondale.....	3	70	6.6	do.	do.	do.	do.	do.	5,500
10	G. W. Patrick.....	do.....	3	35	6.0	do.	do.	do.	do.	do.	4,500
11	Thos. Harris.....	DeSoto.....	3	38	8.0	do.	do.	do.	do.	do.	3,400
12	T. A. Nesbit.....	Ava.....	3	12	6.0	Sl.	Ho.	do.	Hd.	do.	3,200
13	H. S. Phillips.....	Carbondale.....	3	50	7.0	do.	St.	do.	Mule.	do.	3,000
14	Geo. Wahlmann.....	Campbell Hill.....	4	50	4.3	Sh.	do.	do.	Hd.	do.	1,130
15	Church & Bone.....	Ava.....	3	30	5.0	Sl.	Ho.	do.	Cable	do.	900
16	W. F. Johnson.....	do.....	2	25	4.0	Sh.	do.	do.	Hd.	do.	850
17	B. Schimpff.....	do.....	3	22	5.6	Sl.	do.	do.	do.	do.	614
18	W. R. Campbell.....	Mathews.....	2	17	4.3	do.	do.	do.	do.	do.	550
19	Mike Kirby.....	Campbell Hill.....	2	10	3.6	do.	Hd.	do.	do.	do.	455
20	J. B. Schimpff.....	Vergennes.....	6	51	4.0	do.	Ho.	do.	Mule.	do.	400
Total—20 mines.....											727,484
JEFFERSON COUNTY											
1	Mt. Vernon Coal Co.....	Mt. Vernon.....	6	865	4.8	Sh.	St.	P. R.	Motor	Hd...	35,619
2	Sophia Shelton.....	Opdyke.....	2	1.3	do.	do.	do.	do.	Mule.	do.	40
Total—2 mines.....											35,659
JERSEY COUNTY											
1	Cairns & Botts.....	Brighton.....	5	10	3.0	Sh.	Hd.	P. R.	Hd...	Hd...	1,400
Total—1 mine.....											1,400
JOHNSON COUNTY											
1	T. M. McMichael.....	New Burnside.....	3	3.6	Dr.	Hd.	P. R.	Hd...	Hd...	940	
2	J. R. Horn.....	Creal Spring.....	3	30	3.6	Sl.	Ho.	P. R.	do.	do.	144
Total—2 mines.....											1,084
KNOX COUNTY											
1	T. H. Milan.....	Galesburg.....	1	100	4.6	Sh.	St.	P. R.	Hd...	Hd...	5,200
2	F. H. Morse.....	Middle Grove.....	5	4.0	Dr.	Hd.	do.	do.	do.	do.	4,500
3	Rodell & Mitchell.....	Wataga.....	6	50	4.0	Sh.	Ho.	do.	do.	do.	3,781
4	S. D. McGovern.....	Oneida.....	6	40	4.6	do.	do.	do.	do.	do.	2,500
5	Ed. Horkstrom.....	Victoria.....	6	4.0	Dr.	Hd.	do.	do.	do.	do.	2,220
6	Newton Anderson.....	Middle Grove.....	6	4.0	do.	do.	do.	do.	do.	do.	2,000
7	Bangston Bros.....	Wataga.....	6	7.0	do.	do.	do.	do.	do.	do.	1,800
8	Jessie Hillier.....	Rapatee.....	6	3.8	do.	do.	do.	Mule.	do.	do.	1,564
9	Pendergast Bros.....	Soperville.....	1	120	5.0	Sh.	St.	do.	Hd.	do.	1,140
10	Chas. Gladfelter.....	Victoria.....	6	7	4.6	Sl.	Ho.	do.	do.	do.	960
11	Chas. Lopeman.....	Rapatee.....	6	3.6	Dr.	Hd.	do.	do.	do.	do.	650
12	John E. Walsh.....	Williamsfield.....	6	50	4.0	Sh.	Ho.	do.	do.	do.	600
13	Ed Boostrom.....	Oneida.....	5	4.6	Dr.	Hd.	do.	do.	do.	do.	530
14	D. I. Foster.....	Rapatee.....	5	4.0	do.	do.	do.	do.	do.	do.	500
15	N. C. Anderson.....	Knoxville.....	6	2.9	do.	do.	do.	do.	do.	do.	493
16	Wm. Charnock.....	Dahinda.....	6	20	4.0	Sl.	do.	do.	do.	do.	450
17	Eli Anderson.....	Victoria.....	6	4.0	do.	do.	do.	do.	do.	do.	400
18	Chas. Morgan.....	Oneida.....	6	7	4.0	do.	do.	do.	do.	do.	360
19	Nelse Norbury.....	Victoria.....	6	8	4.6	do.	do.	do.	do.	do.	340
20	Albert Wahlberg.....	Knoxville.....	3	45	2.8	Sh.	do.	do.	do.	do.	272
21	Chaffin Henderson.....	Victoria.....	6	15	4.0	do.	do.	do.	do.	do.	210
22	A. J. Nelson.....	Knoxville.....	3	25	2.8	do.	do.	do.	do.	do.	200
23	Frank Watson.....	Victoria.....	6	4.0	Dr.	do.	do.	do.	do.	do.	70
24	Louis Nodine.....	Wataga.....	6	30	4.0	Sl.	do.	do.	do.	do.	60
25	Geo. S. Anderson.....	Victoria.....	6	30	4.0	Sh.	do.	do.	do.	do.	50
Total—25 mines.....											30,810

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
LASALLE COUNTY											
1	LaSalle Co. C. C. Co., No. 5.	LaSalle.	2	545	3.4	Sh.	St.	L. W.	Mule.	Hd.	208, 449
2	Oglesby Coal Co.	Oglesby	2	464	3.6	do.	do.	do.	Motor	do.	204, 222
3	LaSalle Co. C. C. Co., No. 1.	LaSalle.	2	440	3.4	do.	do.	do.	do.	do.	170, 736
4	LaSalle Co. C. C. Co., LaSalle.	do.	2	390	3.4	do.	do.	do.	do.	do.	153, 745
5	Chi., Wil. & V. C. Co., No. 2.	Streator	2	260	3.0	do.	do.	do.	do.	do.	142, 037
6	Chi., Wil. & V. C. Co., No. 3.	do.	2	70	5.6	do.	do.	do.	Cable	do.	132, 199
7	LaSalle Co. C. C. Co., Union.	LaSalle.	2	400	3.4	do.	do.	do.	do.	do.	79, 891
8	Harrison Coal Co.	Streator	2	...	5.6	do.	do.	P. R.	do.	do.	77, 028
9	Acme Coal Co.	do.	7	110	6.6	do.	do.	do.	do.	do.	65, 839
10	Ill. Zinc Co., Deer Park	Peru	2	364	3.3	do.	do.	L. W.	do.	do.	60, 058
11	Cahill Coal Co., No. 1.	do.	3	360	3.6	do.	do.	do.	do.	do.	42, 820
12	Rutland Coal Co., No. 1.	Rutland	2	511	2.10	do.	do.	do.	do.	do.	34, 548
13	G. and J. Coal Co., No. 1.	Seneca	2	130	3.0	do.	do.	do.	do.	do.	11, 373
14	Mathenssen Herzler Zinc Co.	LaSalle.	5	312	3.6	do.	do.	P. R.	Motor	do.	158, 940
15	Manufacturers Coal Co.	do.	2	125	5.0	do.	do.	do.	do.	do.	25, 938
16	Stobs Coal Co.	Streator	7	45	5.0	do.	do.	do.	do.	do.	7, 486
17	Chi. Retort Fire Brick Co.	Ottawa.	2	...	2.5	Sp.	do.	do.	do.	do.	5, 591
18	Munts Coal Co.	Streator	7	90	4.8	Sh.	St.	P. R.	Mule.	Hd.	4, 758
19	Francis Coal Co.	do.	7	102	8.6	do.	do.	do.	do.	do.	3, 520
20	Mitchell Bros.	do.	7	24	5.0	do.	do.	do.	do.	do.	2, 870
21	D. W. Hill.	do.	7	30	5.6	do.	do.	do.	do.	do.	1, 808
22	Fred Scott.	do.	7	20	4.0	Sl.	do.	do.	do.	do.	1, 800
23	Oscar Kimes.	Utica.	7	43	4.0	Sh.	do.	do.	do.	do.	1, 695
24	Brooker Bros.	do.	2	...	3.0	Dr.	do.	do.	do.	do.	1, 550
25	L. W. Brewer.	Ottawa.	2	150	2.0	Sl.	do.	do.	do.	do.	1, 325
26	Charley Hendee.	do.	2	...	2.8	Dr.	do.	do.	do.	do.	667
27	LaKatos & Uhrin.	Streator	2	...	5.0	do.	do.	do.	do.	do.	650
28	Wm. Bottomly.	Utica	2	60	3.6	do.	do.	do.	do.	do.	508
29	Massey Bros.	Streator	2	125	2.9	do.	do.	do.	do.	do.	450
30	W. Howell.	Ottawa.	2	...	2.4	do.	do.	do.	do.	do.	265
31	John McClenon.	Kangley.	2	30	4.0	Sl.	do.	do.	do.	do.	200
Total—31 mines.											1, 602, 966
LIVINGSTON COUNTY											
1	Fairbury Coal Co.	Fairbury	6	158	5.6	Sh.	St.	P. R.	Mule.	Hd.	28, 875
2	Streator Clay Mfg. Co.	Streator	7	80	5.6	do.	do.	do.	do.	Both.	21, 021
3	Fairbury Co-operative C. Co.	Fairbury	6	165	4.0	do.	do.	do.	do.	Hd.	13, 953
4	Ed E. Evans.	Streator	7	55	4.6	do.	do.	do.	do.	do.	1, 600
5	E. D. Turk.	do.	7	54	3.4	do.	do.	do.	do.	do.	975
Total—5 mines.											66, 424
LOGAN COUNTY											
1	Latham Mining Co., N.	Lincoln	5	267	5.2	Sh.	St.	P. R.	Motor	Hd.	197, 690
2	Lincoln M. Co., No. 1.	do.	5	272	5.4	do.	do.	do.	Cable	do.	108, 672
3	Citizens C. M. Co.	do.	5	271	5.2	do.	do.	do.	Mule.	do.	94, 456
4	Mt. Pulaski Col. Co.	Mt. Pulaski.	5	350	4.5	do.	do.	do.	do.	do.	10, 185
Total—4 mines.											411, 003
MACON COUNTY											
1	Manufacturers & C. C. Co.	Decatur.	5	560	4.6	Sh.	St.	L. W.	Mule.	Hd.	104, 465
2	Decatur Coal Co., No. 2.	do.	5	612	4.6	do.	do.	do.	do.	do.	69, 030
3	Blue Mound Coal Co., No. 1.	Blue Mound.	5	486	6.0	do.	do.	P. R.	do.	do.	56, 860
4	Decatur Coal Co., Niantic	Niantic.	5	365	5.4	do.	do.	do.	do.	do.	38, 877
5	Decatur Coal Co., No. 1.	Decatur.	5	612	4.6	do.	do.	L. W.	do.	do.	10, 500
Total—5 mines.											279, 732
MACOUPIN COUNTY											
1	Superior Coal Co., No. 3.	Gillespie	6	340	7.6	Sh.	St.	P. R.	Motor	Mac.	837, 834
2	Superior Coal Co., No. 2.	do.	6	340	7.6	do.	do.	do.	do.	do.	828, 288
3	Superior Coal Co., No. 1.	do.	6	340	7.6	do.	do.	do.	do.	do.	681, 852
4	Consolidated Coal Co., No. 14.	Staunton	6	276	7.0	do.	do.	do.	do.	do.	651, 229
5	Consolidated Coal Co., No. 15.	Mt. Olive.	6	364	7.9	do.	do.	do.	do.	do.	460, 201
6	Royal Col. Co., No. 1.	Virden.	6	300	6.3	do.	do.	do.	do.	do.	395, 652



TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
MACOUPIN COUNTY—Concluded											
7	Girard Col. Co., No. 5	Girard	6	360	7.0	Sh.	St.	P. R.	Motor	Mac.	353,002
8	Madison Coal Corp., No. 5	Mt. Olive	6	420	8.0	do.	do.	do.	do.	do.	279,290
9	Glenridge Coal Co., No. 1	Virdeen	6	320	7.6	do.	do.	do.	do.	Hd.	242,122
10	Vivian Col. Co.	Greenridge	6	346	6.6	do.	do.	do.	do.	do.	209,213
11	Consolidated Coal Co., No. 8	Mt. Olive	6	400	7.9	do.	do.	do.	do.	Mac.	185,541
12	Carlinville Coal Co.	Carlinville	6	265	6.0	do.	do.	do.	Mule	Hd.	77,790
13	Ed. A. Bauser	Bunker Hill	6	245	5.6	do.	do.	do.	Hd.	do.	5,960
14	John Sipora	Chesterfield	6	59	5.0	do.	Ho.	do.	do.	do.	598
15	A. T. Jarden	Bunker Hill	6	240	6.0	Sl.	do.	do.	do.	do.	110
Total—15 mines											5,208,682
MADISON COUNTY											
1	New Staunton C. Co., No. 1	Livingston	6	287	6.0	Sh.	St.	P. R.	Motor	Mac.	848,715
2	Mt. Olive & S. C. Co., No. 2	Staunton	6	317	7.6	do.	do.	do.	do.	do.	518,010
3	Lumaghi Coal Co., No. 2	Collinsville	6	196	6.6	do.	do.	do.	do.	do.	377,798
4	Donk Bros. C. & C. Co., No. 2	Maryville	6	246	7.0	do.	do.	do.	do.	do.	361,169
5	Donk Bros. C. & C. Co., No. 1	Donkville	6	145	6.6	do.	do.	do.	do.	Hd.	309,832
6	Madison Coal Corp., No. 2	Glen Carbon	6	90	6.0	do.	do.	do.	do.	Mac.	265,504
7	DeCamp C. M. Co., Shaft 1	Staunton	6	300	5.2	do.	do.	do.	do.	do.	232,974
8	Donk Bros. C. & C. Co., No. 3	Troy	6	283	5.6	do.	do.	do.	do.	Hd.	187,125
9	Kerns-Donnewald C. Co.	Worden	6	270	7.0	do.	do.	do.	do.	Mac.	185,092
10	Madison Coal Corp., No. 4	Glen Carbon	6	125	5.6	do.	do.	do.	do.	Both.	167,813
11	Mt. Olive & S. C. Co., No. 1	Staunton	6	286	6.0	do.	do.	do.	do.	Mac.	144,981
12	Lumaghi Coal Co., No. 3	Collinsville	6	167	7.6	do.	do.	do.	Mule	do.	80,151
13	W. S. Walker, Henrietta	Edwardsville	6	165	5.6	do.	do.	do.	do.	Both.	63,000
14	City Coal Co.	do.	6	222	6.5	do.	do.	do.	do.	do.	47,636
15	Edwardsville H. T. Coal Co.	do.	6	135	5.0	do.	do.	do.	do.	Hd.	32,582
16	Brookside Coal Co.	Troy	6	290	5.0	do.	do.	do.	do.	do.	10,570
17	Hydraulic Press Brick Co.	Collinsville	6	190	7.0	do.	do.	do.	do.	do.	16,534
18	Abby Coal Corp.	do.	6	200	6.6	do.	do.	do.	do.	do.	13,692
19	East Side Coal Co.	Edwardsville	6	135	6.0	do.	do.	do.	do.	do.	10,473
20	Bullock Bros.	Collinsville	6	170	7.0	do.	do.	do.	do.	do.	4,568
21	Bunker Hill Coal Co.	do.	6	185	6.0	do.	do.	do.	do.	Mac.	4,500
22	George Kabel	Moro	6	90	5.6	do.	do.	do.	Hd.	Hd.	2,000
23	Peter W. Myer	Bethalto	6	66	4.0	do.	do.	do.	do.	do.	1,700
24	Benj. Eccles	Alton	6	40	2.6	do.	Ho.	do.	do.	do.	1,700
25	Yager Coal Co.	Bethalto	6	76	5.6	do.	do.	do.	do.	do.	1,000
26	Eli Stiegemeier	Worden	6	200	6.0	do.	St.	do.	do.	do.	850
27	Ernst H. Rink	Bethalto	6	65	3.6	do.	Ho.	do.	do.	do.	400
Total—27 mines											3,890,639
MARION COUNTY											
1	Marion Coal Co.	Centralia	6	600	6.0	Sh.	St.	P. R.	Motor	Mac.	390,106
2	Chi. Sandoval Coal Co., No. 2	Sandoval	6	625	6.0	do.	do.	do.	do.	Hd.	201,567
3	Odin Coal Co.	Odin	6	722	6.6	do.	do.	do.	do.	Mac.	197,058
4	Centralia Coal Co., No. 2	Centralia	6	600	6.6	do.	do.	do.	do.	Hd.	167,516
5	Centralia Coal Co., No. 4	do.	6	587	6.6	do.	do.	do.	do.	do.	147,689
6	Chi. Sandoval Coal Co.	Sandoval	6	615	5.8	do.	do.	do.	Mule	do.	84,615
Total—6 mines											1,188,551
MARSHALL COUNTY											
1	Toluca Coal Co., No. 1	Toluca	2	512	2.10	Sh.	St.	L. W.	Motor	Hd.	290,523
2	Wenona Coal Co., No. 1	Wenona	2	552	2.8	do.	do.	do.	Mule	do.	115,028
3	Ill. Valley Coal Co., No. 1	Sparland	7	30	4.0	Dr.	do.	P. R.	do.	do.	27,274
4	Ill. Valley Coal Co., No. 2	do.	7	30	3.9	do.	do.	do.	do.	do.	19,387
5	Fulton Co. C. M. Co., No. 1	do.	3	165	2.8	do.	do.	L. W.	do.	do.	10,702
6	Ill. Valley Coal Co., No. 3	do.	7	30	3.9	do.	do.	P. R.	do.	do.	2,114
7	John H. Pearson	do.	7	—	3.6	do.	Hd.	do.	Hd.	do.	1,800
8	R. H. Ingram	do.	1	—	3.10	do.	do.	do.	do.	do.	500
9	Calwell Coal Co.	do.	1	—	3.0	do.	do.	do.	do.	do.	500
10	Lopman Bros.	do.	7	—	3.6	do.	do.	do.	do.	do.	400

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Holting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
MARSHALL COUNTY—Concluded											
11	John Curtis.....	Sparland.....	7	7	3.6	Sh..	Hd..	P. R.	Hd..	Hd..	300
12	Wm. Baugh.....	do.....	1	7	3.6	do..	do..	do..	do..	do..	72
Total—12 mines.....											468,600
M'DONOUGH COUNTY											
1	Colchester Coal Co.....	Colchester.....	2	60	2.6	Sh..	St..	P. R.	Hd..	Hd..	5,399
2	John Wilson.....	do.....	2	70	2.0	do..	do..	do..	do..	do..	2,918
3	C. F. Sweeney.....	do.....	2	40	2.8	do..	do..	do..	do..	do..	2,500
4	Ed. Zinn.....	Industry.....	2	27	2.6	do..	do..	do..	do..	do..	1,960
5	Frank Burdick.....	do.....	2	35	2.8	do..	do..	do..	do..	do..	1,800
6	P. M. Jennings.....	do.....	2	30	3.0	do..	do..	do..	do..	do..	1,590
7	A. L. Fleming.....	Colchester.....	2	80	2.2	do..	do..	do..	do..	do..	1,210
8	Wm. Whalen.....	do.....	2	50	2.6	do..	do..	do..	do..	do..	780
9	Wayland Bros.....	do.....	2	50	2.6	do..	do..	do..	do..	do..	630
10	William Jones.....	do.....	2	50	2.4	do..	do..	do..	do..	do..	600
11	W. L. Stoneking.....	Birmingham.....	2	70	2.4	do..	do..	do..	do..	do..	600
12	W. H. Robinson.....	Colchester.....	2	50	2.4	do..	do..	do..	do..	do..	560
13	Bunt Bros.....	do.....	2	75	2.0	Dr..	do..	do..	do..	do..	450
14	J. O. Thompson.....	Macomb.....	2	40	2.6	do..	do..	do..	do..	do..	430
15	Elmer Hamilton.....	Blandenville.....	2	30	2.6	Sl..	do..	do..	do..	do..	420
16	Charley Norris.....	Macomb.....	2	40	2.6	Dr..	do..	do..	do..	do..	400
17	William Webster.....	Colchester.....	2	20	2.0	do..	do..	do..	do..	do..	398
18	Harpe & Fenton.....	do.....	2	40	2.6	do..	do..	do..	do..	do..	380
19	S. K. Walters.....	Vermont.....	2	40	3.0	do..	do..	do..	do..	do..	370
20	J. E. Wilson.....	Blandenville.....	2	50	1.8	do..	do..	do..	do..	do..	360
21	Foster & Co.....	Colchester.....	2	50	2.0	do..	do..	do..	do..	do..	354
22	James Wayland.....	do.....	2	70	2.0	do..	do..	do..	do..	do..	350
23	Isaac Fisher.....	do.....	2	50	2.0	do..	do..	do..	do..	do..	334
24	Henry Finch.....	Macomb.....	2	35	2.4	do..	do..	do..	do..	do..	320
25	Elmer Swanson.....	Colchester.....	2	41	2.0	do..	do..	do..	do..	do..	304
26	M. McClure.....	do.....	2	71	2.0	do..	do..	do..	do..	do..	300
27	A. Waters.....	do.....	2	38	2.4	do..	do..	do..	do..	do..	300
28	Eli Hillard.....	do.....	2	50	2.4	do..	do..	do..	do..	do..	280
29	J. L. Willey.....	Macomb.....	2	35	2.4	do..	Hd..	do..	do..	do..	280
30	G. E. Dickerson.....	Colchester.....	2	40	2.6	do..	do..	do..	do..	do..	280
31	Fred Curtis.....	Macomb.....	2	60	2.6	do..	do..	do..	do..	do..	275
32	Ralph Burney.....	Colchester.....	2	..	2.4	Sl..	do..	do..	do..	do..	266
33	C. M. Icenagle.....	Macomb.....	2	50	2.6	Dr..	do..	do..	do..	do..	260
34	Lem Williams.....	Colchester.....	2	50	2.0	do..	do..	do..	do..	do..	200
35	Frank Murray.....	do.....	2	40	2.0	do..	do..	do..	do..	do..	190
36	Thos. Kipling.....	do.....	2	60	2.0	do..	do..	do..	do..	do..	190
37	Frank Vogles.....	Birmingham.....	2	40	2.0	do..	do..	do..	do..	do..	180
38	Oscar Swanson.....	Colchester.....	2	40	2.0	do..	do..	do..	do..	do..	150
39	C. E. Waddell.....	Tennessee.....	2	50	2.4	do..	do..	do..	do..	do..	110
40	David E. Ebbens.....	Colchester.....	2	40	2.0	do..	do..	do..	do..	do..	80
41	Fox Bros.....	do.....	2	50	2.6	do..	do..	do..	do..	do..	75
42	C. C. Tone.....	do.....	2	66	2.0	do..	do..	do..	do..	do..	65
43	James Wilson.....	do.....	2	70	2.0	do..	do..	do..	do..	do..	28
Total—43 mines.....											28,926
M'LEAN COUNTY											
1	McLean Co. Coal Co.....	Bloomington.....	5	525	3.6	Sh..	St..	L. W.	Cable	Hd..	75,305
2	Colfax Co-operative C. No. 1.....	Colfax.....	5	400	6.0	do..	do..	P. R.	Mule	do..	17,931
Total—2 mines.....											93,236
MENARD COUNTY											
1	Wabash Coal Co., No. 2.....	Athens.....	5	200	6.0	Sh..	St..	P. R.	Mule	Hd..	59,564
2	So. Mountain Coal Co.....	Petersburg.....	5	85	6.0	Sl..	do..	do..	do..	do..	40,281
3	Greenview Mining Co., No. 1.....	Greenview.....	5	110	6.0	Sh..	do..	do..	do..	do..	35,948
4	Menard Co. Coal Co., No. 1.....	Tallula.....	5	185	6.0	do..	do..	do..	do..	do..	14,374
5	Johnson Bros. C. Co.....	Fancy Prairie.....	5	164	5.6	do..	do..	do..	do..	do..	6,656
6	John Mallegren, Sr.....	Petersburg.....	5	60	6.0	do..	do..	do..	do..	do..	4,000
7	N. Biggs.....	Tallula.....	5	132	6.0	do..	Ho..	do..	do..	do..	3,263
8	Peter Baker.....	do.....	5	90	6.0	do..	do..	do..	do..	do..	2,766



TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
MENARD COUNTY—Concluded											
9	Brand & Walker	Petersburg	5	150	6.0	Sh.	St.	P. R.	Mule	Hd.	1,200
10	Frank Loftin	do	5	80	6.0	Sl.	do.	do.	do.	do.	600
11	John Grosball	Tice	5	100	6.0	do.	do.	do.	do.	do.	400
12	John W. Mallergren	Petersburg	5	70	6.0	do.	Ho.	do.	do.	do.	103
Total—12 mines											169,149
MERCER COUNTY											
1	Coal Valley M. Co., No. 3	Mathersville	1	69	4.0	Sh.	St.	P. R.	Cable	Both.	157,999
2	Alden Coal Co., No. 7	do	1	90	4.0	do.	do.	do.	Motor	Hd.	124,444
3	Coal Valley M. Co., No. 2	Sherrard	1	210	4.0	do.	do.	do.	Cable	do.	118,958
4	Fulton Co. Coal Co., No. 2	Matersville	1	10	3.8	Sl.	Hd.	do.	do.	do.	2,065
5	Axel Link	Aledo	1	40	3.8	Sh.	Ho.	do.	Hd.	do.	5,601
6	Docherty Bros.	Preemption	1	20	4.0	Sl.	St.	do.	do.	do.	4,050
7	W. P. Williams	Aledo	1	70	4.6	Sh.	Ho.	do.	do.	do.	3,874
8	R. W. Peterson	New Windsor	1	30	2.6	do.	do.	do.	do.	do.	1,535
9	James Blaine	Viola	1	8	4.0	Sl.	do.	do.	do.	do.	982
10	B. B. Peterson	Cable	1	60	4.0	Sh.	do.	do.	do.	do.	581
11	Thos. Dodd & Son	Viola	1	—	4.0	Dr.	Hd.	do.	do.	do.	520
12	A. W. Wahlberg	Cable	1	10	2.2	Sl.	Ho.	do.	do.	do.	520
13	S. J. Young	New Windsor	1	91	2.0	do.	St.	do.	do.	do.	464
Total—13 mines											421,593
MONTGOMERY COUNTY											
1	Peabody Coal Co., No. 14	Witt	6	410	8.0	Sh.	St.	P. R.	Motor	Hd.	551,772
2	Shoal Creek C. Co., No. 1	Panama	6	381	7.0	do.	do.	do.	do.	Mac.	542,473
3	Peabody Coal Co., No. 15	Taylor Springs	6	450	8.0	do.	do.	do.	do.	do.	395,003
4	Hillsboro Coal Co.	Hillsboro	6	456	7.6	do.	do.	do.	do.	do.	351,723
5	Peabody Coal Co., No. 12	Witt	6	430	7.6	do.	do.	do.	Mule	Hd.	271,839
6	Peabody Coal Co., No. 11	Hillsboro	6	500	8.0	do.	do.	do.	Motor	Mac.	167,070
7	Clover Leaf Coal Co., No. 2	Coffeen	6	524	7.6	do.	do.	do.	do.	Hd.	83,516
8	Farmersville C. M. Co., No. 1	Farmersville	6	360	8.6	do.	do.	do.	Mule	do.	26,922
9	Litchfield Col. Co., No. 7	Litchfield	6	710	7.6	do.	do.	do.	do.	do.	20,593
10	Peabody Coal Co., No. 10	Nokomis	6	639	8.0	do.	do.	do.	do.	do.	7,418
Total—10 mines											2,418,329
MOULTRIE COUNTY											
1	Livingston C. M. Co. No. 1	Livingston	6	900	8.0	Sh.	St.	P. R.	Mule	Hd.	105,280
Total—1 mine											105,280
MORGAN COUNTY											
1	G. H. Fisher	Murrayville	6	63	4.0	Sh.	Ho.	P. R.	Hd.	Hd.	956
Total—1 mine											956
PEORIA COUNTY											
1	Clarke C. & C. Co., No. 2	Peoria	5	185	4.0	Sh.	St.	P. R.	Motor	Hd.	249,983
2	Walschlag Co-oper. C. Co.	do	5	—	4.3	Sl.	do.	do.	do.	do.	164,570
3	Crescent Coal Co., No. 1	do	5	200	4.6	Dr.	do.	do.	do.	do.	149,153
4	Brewster & Evans Co.	do	5	150	4.4	Sl.	do.	do.	do.	do.	139,893
5	Newsam Bros., No. 3	Kingston Mines	5	—	4.6	do.	do.	do.	do.	do.	94,147
6	Peoria Dist. Col. Co., No. 3	Bartonville	5	80	4.6	Sh.	do.	do.	do.	Both.	83,613
7	Loran Coal Co., No. 1	Hana City	5	250	4.2	do.	do.	do.	do.	Mac.	68,000
8	Warsaw Coal Co.	Edwards	5	80	4.5	Dr.	do.	do.	do.	do.	42,908
9	Collier Co-op. C. Co.	Bartonville	5	120	4.4	Sh.	do.	do.	Mule	do.	41,613
10	Mapleton Coal Co.	Mapleton	5	—	4.8	Sl.	do.	do.	do.	do.	36,685
11	Olympia C. M. Co.	Edwards	5	117	4.0	Dr.	do.	do.	Motor	do.	24,586
12	Lan. Ldg. C. & T. Co., No. 1	Kingston Mines	5	140	4.6	do.	do.	do.	Mule	do.	20,157
13	German Coal Co., No. 1	Mapleton	4	115	4.6	Sl.	do.	do.	Cable	do.	12,016
14	Younts Coal Co., No. 1	Oak Hill	5	70	3.8	Dr.	do.	do.	Mule	Hd.	6,530
15	Winter Coal Co.	Bartonville	5	100	4.6	Sh.	do.	do.	do.	do.	27,500
16	Treasurers Coal Co.	do	5	182	4.6	do.	do.	do.	do.	do.	13,801
17	Hibbert & Snedden C. Co.	Peoria	5	200	4.4	Sl.	do.	do.	do.	do.	9,020
18	Mohn Coal Co.	do	5	100	4.0	Sh.	do.	do.	do.	do.	7,820

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—stream, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
PEORIA COUNTY—Concluded											
19	Limestone Coal Co.	Peoria	5	130	4.2	Sh.	St.	P. R.	Mule	Hd.	5, 145
20	F. P. Schmidt & Son	do.	5	...	4.2	Sl.	do.	do.	do.	do.	4, 654
21	P. Martin	do.	5	50	4.0	Sh.	do.	do.	do.	do.	4, 000
22	Fisher & Blank	do.	5	200	4.0	Sl.	do.	do.	do.	do.	4, 000
23	George Vicary	do.	5	...	4.0	Dr.	do.	do.	do.	do.	3, 636
24	R. Taylor & Son	Brimfield	6	80	4.0	Sh.	do.	do.	Hd.	do.	3, 261
25	Fairoak Coal Co.	Peoria	5	90	4.6	do.	do.	do.	Mule	do.	3, 195
26	L. Schmidt	do.	5	65	4.0	Dr.	Hd.	do.	do.	do.	2, 314
27	Callear Bros.	Chillicothe	5	180	4.8	Sl.	St.	do.	do.	do.	2, 256
28	Heitzman & Smith	Mapleton	5	80	4.8	Dr.	Ho.	do.	do.	do.	1, 943
29	Calwell & Strong	Princeville	6	75	4.6	Sh.	St.	do.	Hd.	do.	1, 880
30	Pleasant Heights C. Co.	Peoria	5	65	3.4	do.	Ho.	do.	Mule	do.	1, 690
31	Frank Harlin	Chillicothe	7	75	4.8	Dr.	Hd.	do.	Hd.	do.	1, 550
32	Staton and Blessing	Mapleton	5	...	4.6	do.	do.	do.	Mule	do.	1, 105
33	Harry J. Green	Hanna City	6	...	4.6	do.	do.	do.	Hd.	do.	1, 000
34	Baker Bros.	Knigston Mines	5	...	4.0	do.	Ho.	do.	Mule	do.	950
35	Thos. Jones	Peoria	5	80	4.6	do.	do.	do.	do.	do.	891
36	R. C. Crew	Chillicothe	7	...	3.6	do.	Hd.	do.	Hd.	do.	816
37	John H. Smith	Glasford	5	20	4.8	Sl.	Ho.	do.	do.	do.	752
38	Clarkson & Hennery	Edwards	5	...	4.0	Dr.	Hd.	do.	do.	do.	706
39	Henry Penn	Hanna City	5	26	4.2	Sh.	Ho.	do.	Mule	do.	700
40	James Dalton	Elmwood	5	125	3.6	do.	St.	do.	do.	do.	660
41	J. W. Miller	Laura	6	33	4.0	do.	Ho.	do.	Hd.	do.	623
42	James Andrews	Edwards	5	...	4.0	Dr.	do.	do.	Mule	do.	599
43	Wm. Poole	do.	5	20	4.6	do.	do.	do.	Hd.	do.	575
44	Herman Durant	Brimfield	6	51	4.6	Sh.	do.	do.	do.	do.	562
45	Clark & Martin	do.	6	36	4.6	Sl.	St.	do.	do.	do.	508
46	R. J. Scott	Oak Hill	5	80	3.4	Dr.	Hd.	do.	do.	do.	480
47	Joseph Radelback	Brimfield	6	30	4.6	Sl.	St.	do.	Mule	do.	450
48	Thos. Short	do.	5	70	2.8	do.	do.	do.	Hd.	do.	400
49	Wm. Simons	Chillicothe	7	75	3.4	do.	Hd.	do.	do.	do.	310
50	Enoch Snider	Edwards	5	...	4.0	Dr.	do.	do.	do.	do.	285
51	W. P. Cramer	do.	6	...	4.6	do.	Ho.	do.	do.	do.	271
52	Joe C. Fussner	Brimfield	5	...	3.0	do.	Hd.	do.	do.	do.	270
53	Fred Martin	Peoria	5	...	4.6	do.	Ho.	do.	Mule	do.	211
54	Farrell Bros.	Brimfield	6	50	4.6	do.	do.	do.	Hd.	do.	122
55	M. H. Moody	Hanna City	6	20	4.6	Sl.	do.	do.	do.	do.	70
56	Frank Marie	Peoria	5	50	4.0	Dr.	Hd.	do.	do.	do.	53
57	H. C. Ingle	Elmore	6	...	4.0	do.	do.	do.	do.	do.	36
Total—57 mines											1, 244, 924
PERRY COUNTY											
1	Security Coal M. Co., No. 1	Duquoin	6	90	8.0	Sh.	St.	P. R.	Motor	Mac.	275, 674
2	Willis Coal M. Co., No. 1	Willisville	6	86	6.0	do.	do.	do.	do.	Hd.	244, 538
3	Paradise Coal Co., Paradise	Duquoin	6	365	10.0	do.	do.	do.	do.	do.	241, 483
4	Majestic C. & C. Co., No. 1	do.	6	409	9.0	do.	do.	do.	do.	do.	215, 730
5	Ritchey Coal Co., No. 1	Pinkneyville	6	142	8.0	do.	do.	do.	Mule	Mac.	158, 852
6	Duquoin Oper. Co., Queen	Duquoin	6	390	9.0	do.	do.	do.	do.	Hd.	158, 704
7	Mo. and Ill. Coal Co., No. 4	Willisville	6	78	6.0	do.	do.	do.	Motor	Mac.	126, 726
8	St. Louis Coulter. C. Co. Vul.	Coulterville	6	300	7.0	do.	do.	do.	do.	Hd.	61, 404
9	Bald Eagle M. Co.	Craig	6	250	7.0	do.	do.	do.	Mule	do.	48, 410
10	Wilson Coal Co.	Cutler	6	112	6.0	do.	do.	do.	do.	do.	23, 859
11	King City C. & M. Co.	do.	6	126	6.0	do.	do.	do.	do.	do.	16, 816
12	Little Muddy Fuel Co.	Tamaroa	6	216	5.8	do.	do.	do.	do.	do.	13, 794
13	Bailey Bros. C. Co., Diamond	Sunfield	6	80	5.0	do.	do.	do.	do.	do.	13, 752
14	Brilliant C. & C. Co., N. Mine	Duquoin	6	85	7.0	do.	do.	do.	Motor	do.	13, 047
15	Greenwood-Davis C. Co., No. 2	do.	6	50	6.0	do.	do.	do.	Mule	do.	9, 409
16	Bailey Bros. C. Co., Sun	Sunfield	6	80	5.0	do.	do.	do.	do.	do.	7, 469
17	Strait Coal Co.	Pinkneyville	6	85	7.0	do.	do.	do.	do.	do.	3, 255
18	Dynamic C. M. Co., No. 3	Duquoin	6	...	6.0	do.	do.	do.	do.	do.	1, 292
19	Schneider Coal Co.	Pinkneyville	6	75	6.0	do.	do.	do.	do.	do.	2, 981
20	Hale Coal Co.	do.	6	60	6.0	do.	do.	do.	Hd.	do.	2, 250
21	Greenwood-Davis C. Co.	Duquoin	6	60	9.0	do.	Ho.	do.	Mule	do.	1, 655

TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
PERRY COUNTY—Concluded											
22	New Moon M. Co.	Duquoin	6	6.0	Sp.						1,486
23	Rolla Clark	St. John	6	6.0	Dr.	Ho.	P. R.	Hd.	Hd.		457
Total—23 mines											1,643,043
PUTNAM COUNTY											
1	St. Paul Coal Co., No. 1	Granville	7	486	2.8	Sh.	St.	L. W.	Mule	Hd.	451,428
2	B. F. Berry Coal Co., No. 1	do.	2	505	3.0	do.	do.	do.	do.	do.	301,301
Total—2 mines											752,729
RANDOLPH COUNTY											
1	Willis C. & M. Co., Goulby No. 6	Percy	6	85	6.6	Sh.	St.	P. R.	Motor	Mac.	269,110
2	Jones Bros. C. M. Co., Eureka No. 2	Mairssa	6	185	7.0	do.	do.	do.	Mule	Hd.	103,509
3	Wilson Bros. Coal Co., No. 7	Sparta	6	150	6.0	do.	do.	do.	Motor	do.	78,306
4	Ill. Fuel Co., No. 4	do.	6	80	7.0	do.	do.	do.	do.	Mac.	75,600
5	Moffatt Coal Co., No. 1	do.	6	140	6.0	do.	do.	do.	Mule	do.	74,318
6	Bessmer C. & M. Co., Crystal	Tilden	6	200	6.6	do.	do.	do.	do.	Hd.	27,513
7	Bessemer C. & M. Co., Tilden	do.	6	185	6.6	do.	do.	do.	do.	do.	26,805
8	Underwood C. & M. Co.	Coulterville	7	197	6.0	do.	do.	do.	do.	do.	23,164
9	Randolph Co. Coal Co., O. M.	do.	6	305	7.0	do.	do.	do.	do.	do.	13,932
10	Boyd C. & C. Co., No. 1	Sparta	6	100	6.0	do.	do.	do.	Motor	do.	7,426
11	Rury & Rury	Percy	6	56	6.0	do.	Ho.	do.	Hd.	do.	3,000
12	Jones & Son	Sparta	6	40	4.6	do.	St.	do.	do.	do.	2,370
13	J. Boyle Coal Co.	do.	6	96	6.0	do.	do.	do.	Mule	do.	2,240
14	Adams Bros.	Willisville	6	42	6.0	do.	do.	do.	Hd.	do.	2,060
15	J. W. Bixby	Sparta	6	40	4.6	do.	do.	do.	do.	do.	1,905
16	Evan Briggaman	Percy	6	39	6.0	do.	do.	do.	do.	do.	500
Total—16 mines											712,058
ROCK ISLAND COUNTY											
1	Central Ill. Fuel Co., No. 1	Coal Valley	1	63	3.6	Sh.	St.	P. R.	Mule	Mac.	9,268
2	J. J. Pryce Coal Co.	do.	1	122	4.0	do.	do.	do.	do.	Hd.	14,053
3	Otto Kuhlman & Co.	do.	1	60	4.0	do.	do.	do.	do.	do.	13,770
4	Moline Mining Co.	Moline	1	60	3.6	do.	do.	do.	do.	do.	7,771
5	Stoehr and Schadt	Carbon Cliff	1	70	3.10	do.	do.	do.	do.	do.	3,500
6	So. Rock Island Coal Co.	Rock Island	1	70	3.6	Sl.	do.	do.	Hd.	do.	2,279
7	Frederick & Gramenez	Coal Valley	1	40	4.0	do.	do.	do.	do.	do.	1,700
8	Jamieson-Irwin	Moline	1	65	4.0	Sh.	Ho.	do.	do.	do.	1,270
9	Stone Bros.	do.	1	50	3.6	do.	do.	do.	do.	do.	1,200
10	Co-operative Coal Co.	Hampton	1	70	4.0	do.	St.	do.	do.	do.	570
11	Von Ach Bros.	do.	1	12	3.6	Dr.	Ho.	do.	do.	do.	28
Total—11 mines											55,709
SALINE COUNTY											
1	Saline Co. Coal Co., No. 2	Ledford	5	100	8.0	Sh.	St.	P. R.	Motor	Mac.	552,064
2	O'Gara Coal Co., No. 9	Harrisburg	5	152	6.8	do.	do.	do.	do.	do.	504,557
3	Saline Co. Coal Co., No. 3	do.	5	276	7.0	do.	do.	do.	do.	do.	467,598
4	Wasson Coal Co., No. 1	Wasson	5	320	5.6	do.	do.	do.	do.	do.	357,949
5	O'Gara Coal Co., No. 3	Harrisburg	5	233	6.2	do.	do.	do.	do.	Hd.	343,821
6	O'Gara Coal Co., No. 10	Eldorado	5	406	4.7	do.	do.	do.	do.	Mac.	294,246
7	O'Gara Coal Co., No. 14	Ledford	5	146	6.4	do.	do.	do.	do.	do.	277,803
8	Eldorado C. M. Co., No. 1	Eldorado	5	450	4.8	do.	do.	do.	do.	Hd.	272,512
9	O'Gara Coal Co., No. 4	Harrisburg	5	213	7.0	do.	do.	do.	do.	Mac.	268,006
10	O'Gara Coal Co., No. 15	Carriers Mills	5	58	5.1	do.	do.	do.	do.	do.	267,486
11	O'Gara Coal Co., No. 1	Harrisburg	5	311	5.3	do.	do.	do.	do.	do.	265,664
12	Big Creek Col. Co., No. 1	Eldorado	5	337	6.0	do.	do.	do.	do.	Hd.	143,331
13	O'Gara Coal Co., No. 12	Harrisburg	5	415	5.0	do.	do.	do.	do.	Mac.	124,656
14	O'Gara Coal Co., No. 8	Eldorado	5	393	4.8	do.	do.	do.	do.	do.	111,032
15	O'Gara Coal Co., No. 7	Carriers Mills	5	76	6.6	do.	do.	do.	do.	do.	121,794
16	O'Gara Coal Co., No. 11	Eldorado	5	392	4.8	do.	do.	do.	do.	do.	106,694
17	Galatia & Saline C. Co., No. 1	Galatia	5	365	5.6	do.	do.	do.	Mule	Hd.	14,000



TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Geological number of seam	Physical character of mines								Total tons
				Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Holting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both		
SCOTT COUNTY												
1	Geo. W. Northrop.....	Alsey.....	2	22	2.6	Dr.	Hd.	P. R.	Hd.	Hd.	1,000	
2	J. A. Jones.....	Winchester.....	2	22	2.6	do.	do.	do.	do.	do.	780	
3	Ben & Jos Hepworth.....	Alsey.....	2	12	2.6	Sl.	do.	do.	do.	do.	569	
4	George Sellers.....	Winchester.....	2	25	2.6	do.	do.	do.	do.	do.	185	
5	Pat McGuire.....	Alsey.....	2	25	2.6	do.	do.	do.	do.	do.	120	
Total—5 mines.....											2,654	
SHELBY COUNTY												
1	Tower Hill Coal Co., No. 1....	Tower Hill.....	6	812	5.6	Sh.	St.	P. R.	Mule.	Hd.	145,756	
2	Mow. C. M. & Mfg. Co., No. 1.	Moweaqua.....	5	520	5.2	do.	do.	do.	Motor	Mac.	49,813	
3	Wm. Baum.....	Shelbyville.....	16	54	2.0	do.	Ho.	do.	Hd.	Hd.	2,400	
4	Vanderpool & Smith.....	do.....	6	61	2.0	do.	do.	do.	do.	do.	2,209	
5	Wm. Baum.....	do.....	16	60	2.0	do.	do.	do.	do.	do.	2,200	
6	B. F. Stretch.....	do.....	16	160	2.0	do.	do.	do.	do.	do.	560	
7	Wm. Baum.....	do.....	16	126	2.0	do.	do.	do.	do.	do.	30	
Total—7 mines.....											202,968	
STARK COUNTY												
1	Wyoming Mining Co.....	Wyoming.....	6	120	4.6	Sh.	St.	P. R.	Mule.	Hd.	6,753	
2	Snare & Blakey.....	do.....	6	70	4.6	do.	do.	do.	do.	do.	4,120	
3	Theodore McDaniel.....	do.....	6	104	4.0	do.	do.	do.	do.	do.	3,160	
4	A. J. Catton.....	LaFayette.....	6	114	5.0	Dr.	Hd.	do.	do.	do.	2,496	
5	Jessie Saville.....	Tolon.....	6	64	4.0	Sh.	Ho.	do.	do.	do.	2,085	
6	James Scott.....	Wyoming.....	6	83	5.0	do.	do.	do.	do.	do.	1,760	
7	Geo. Endres & Co.....	do.....	6	114	4.0	Dr.	Hd.	do.	do.	do.	1,600	
Total—7 mines.....											21,974	
ST. CLAIR COUNTY												
1	St. L. & O'Fallon C. Co., No. 2	East St. Louis..	6	197	6.0	Sh.	St.	P. R.	Motor	Mac.	713,381	
2	Consolidated Coal Co., No. 17.	Collinsville.....	6	236	6.6	do.	do.	do.	do.	do.	615,318	
3	Prairie Coal Co.....	Belleville.....	6	212	6.0	do.	do.	do.	Mule.	Hd.	420,363	
4	So. C. C. & M. Co., No. 8.....	do.....	6	114	7.6	do.	do.	do.	Motor	Mac.	391,316	
5	So. C. C. & M. Co., No. 7.....	do.....	6	131	7.6	do.	do.	do.	Mule.	do.	283,079	
6	Jos. Taylor C. Co., St. Ellen....	O'Fallon.....	6	200	7.9	do.	do.	do.	Motor	Hd.	203,389	
7	St. L. & O'Fallon C. Co., No. 1	East St. Louis..	6	100	6.0	do.	do.	do.	do.	do.	153,461	
8	Superior Coal Mining Co.....	Belleville.....	6	160	7.0	do.	do.	do.	Mule.	Mac.	138,369	
9	Kolb Coal Co., No. 2.....	Mascoutah.....	6	160	7.0	do.	do.	do.	Motor	Hd.	124,081	
10	Suburban C. & M. Co.....	Belleville.....	6	175	7.0	do.	do.	do.	do.	do.	121,137	
11	Kolb Coal Co., No. 1.....	Mascoutah.....	6	160	7.0	do.	do.	do.	do.	do.	98,886	
12	Kolb Coal Co., Fairbank.....	Lenzburg.....	6	90	7.0	do.	do.	do.	Mule.	do.	85,672	
13	Breese-Trenton Mining Co.....	Trenton.....	6	345	4.6	do.	do.	do.	Motor	Mac.	84,357	
14	Mulberry Hill Coal Co., No. 1.	Freeburg.....	6	150	6.0	do.	do.	do.	Mule.	do.	81,298	
15	Star Coal Co., Star.....	do.....	6	89	6.8	do.	do.	do.	do.	Hd.	76,741	
16	Jos. Taylor C. Co., T. Mine.....	O'Fallon.....	6	200	7.9	do.	do.	do.	Motor	do.	74,096	
17	Jones Bros. Coal Co., Eureka No. 1.....	Marissa.....	6	120	6.6	do.	do.	do.	Cable	do.	63,853	
18	Eldnar Coal.....	Belleville.....	6	105	6.6	do.	do.	do.	Mule.	Both.	57,296	
19	Borders Coal Co.....	Marissa.....	6	115	7.0	do.	do.	do.	Motor	Hd.	53,744	
20	Summit Coal Mining Co.....	Belleville.....	6	185	7.0	do.	do.	do.	Mule.	do.	52,795	
21	Jos. Taylor Coal Co., Ridge Prairie Mine.....	O'Fallon.....	6	200	7.9	do.	do.	do.	Motor	do.	51,328	
22	Johnson Coal Co., O. K.....	Marissa.....	6	125	7.0	do.	do.	do.	do.	do.	49,210	
23	White Coal Co., Miller Mine....	Belleville.....	6	160	7.0	do.	do.	do.	Mule.	do.	48,146	
24	Pittsburg Mining Co.....	do.....	6	140	6.7	do.	do.	do.	do.	do.	43,306	
25	Oakdale C. M. Co., Glendale....	do.....	6	90	6.0	do.	do.	do.	Motor	Mac.	42,900	
26	Fullerton Coal Co.....	do.....	6	165	6.7	do.	do.	do.	Mule.	Hd.	42,593	
27	Groome C. Co., Richland.....	do.....	6	100	8.0	do.	do.	do.	do.	do.	37,585	
28	Gauch C. & M. Co., Enterprise	Rentchler.....	6	107	7.0	do.	do.	do.	Motor	do.	31,500	
29	Mo. & Ill. Coal Co.....	do.....	6	114	7.0	do.	do.	do.	do.	Mac.	30,845	
30	Maule Coal Co., Harmony.....	Belleville.....	6	180	7.0	do.	do.	do.	Mule.	Hd.	29,400	
31	Inter. C. M. Co., Carbon Mine.	O'Fallon.....	6	190	7.6	do.	do.	do.	Motor	do.	28,237	



TABLE 72—Continued

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
ST. CLAIR COUNTY—Concluded											
32	L. Senior.....	Belleville.....	6	70	6.7	Sh..	St..	P. R.	Motor	Mac..	27, 169
33	Highland Coal Co. ....	do.....	6	140	7.0	do..	do..	do..	Mule.	Hd..	25, 864
34	New National C. Co., National	do.....	6	80	6.6	do..	do..	do..	do..	do..	25, 250
35	So. C. C. & M. Co., Avery No. 1	do.....	6	183	6.6	do..	do..	do..	do..	Mac..	22, 554
36	Tirrie Coal Co. ....	Lenzburg.....	6	93	7.0	do..	do..	do..	Motor	Hd..	21, 595
37	Kolb Coal Co., Valley M.	Birkner.....	6	85	7.0	do..	do..	do..	Mule.	do..	20, 464
38	Cluley Miller C. Co., Ruby.....	Caseyville.....	6	180	6.0	do..	do..	do..	do..	do..	20, 409
39	St. Clair Coal Co., St. C.	Freeburg.....	6	127	6.6	do..	do..	do..	do..	do..	19, 323
40	Vulcan C. & M. Co., Hippard.	Belleville.....	6	100	6.6	do..	do..	do..	Motor	do..	18, 675
41	Golden Rule Coal Co. ....	Lenzburg.....	6	53	7.0	do..	do..	do..	Mule.	do..	17, 334
42	Egyptian C. & M. Co., Meek No. 2.	Marissa.....	6	190	6.0	do..	do..	do..	do..	do..	16, 080
43	Fisher Fuel Co. ....	Millstadt.....	6	18	6.0	Str.	do..	do..	do..	do..	15, 200
44	Silver Creek Valley C. Co. ....	Belleville.....	9	90	6.0	Sh..	do..	P. R.	Mule.	Mac..	13, 961
45	Mulberry Hill C. Co., No. 2.	Freeburg.....	6	130	7.9	do..	do..	do..	do..	Hd..	11, 800
46	Reeb Bros. C. Co., Murphy.....	Belleville.....	6	40	6.0	do..	do..	do..	do..	do..	11, 507
47	Mo. & Ill. C. Co., Wilderman.....	do.....	6	100	6.6	do..	do..	do..	do..	Both.	8, 295
48	So. C. C. & M. Co., No. 5.	do.....	6	119	6.0	do..	do..	do..	do..	Hd..	8, 294
49	Egyptian C. & M. Co., Advance	Marissa.....	6	87	6.0	do..	do..	do..	do..	do..	5, 585
50	Kolb Coal Co., V. Hill.....	New Athens.....	6	90	7.0	do..	do..	do..	Motor	do..	561
51	Belleville Colliery Co. ....	Belleville.....	6	66	6.6	do..	do..	do..	Mule.	do..	19, 710
52	Bretz & Schilling.....	do.....	6	107	6.0	do..	do..	do..	do..	do..	19, 700
53	Tower Grove Coal Co. ....	do.....	6	150	6.0	do..	do..	do..	do..	do..	12, 742
54	Peoples Coal Co. ....	Lebanon.....	6	200	4.8	do..	do..	do..	do..	Both.	8, 625
55	Cooperative Coal Co. ....	New Athens.....	6	80	6.0	do..	do..	do..	do..	Hd..	7, 927
56	Richard-Schram & Son.....	Belleville.....	6	51	6.0	do..	do..	do..	do..	do..	7, 038
57	J. T. Beatty.....	Mascoutah.....	6	160	7.0	do..	do..	do..	do..	do..	5, 559
58	Pistor & Leppert.....	Millstadt.....	6	32	6.0	do..	do..	do..	do..	do..	4, 819
59	Diamond Joe Coal Co. ....	do.....	6	30	6.0	do..	do..	do..	do..	do..	4, 587
60	McGouch Bros. & Stone.....	Marissa.....	6	60	6.6	do..	do..	do..	do..	do..	3, 400
61	Quinn & Son.....	Smithton.....	6	18	6.6	do..	Ho.	do..	do..	do..	2, 701
62	Fred Weiesner.....	Millstadt.....	6	65	5.0	Sl.	do..	do..	do..	do..	1, 940
63	Lerth & Walters.....	Freeburg.....	6	125	6.0	do..	do..	do..	do..	do..	1, 422
64	Edgemont Coal Co. ....	Edgemont.....	6	97	6.0	Sh..	St..	do..	do..	do..	1, 270
65	Fred J. Ziska.....	Belleville.....	6	60	6.0	Dr.	Ho.	do..	do..	do..	1, 220
Total—65 mines.....											4, 740, 212
TAZEWELL COUNTY											
1	Tazewell Coal Co. ....	Pekin.....	5	165	4.8	Sh..	St..	P. R.	Mule.	Mac..	148, 294
2	Groveland Coal Co., No. 1.	Peoria.....	5	85	4.8	do..	do..	do..	Motor	Hd..	54, 384
3	Eastern Coal Co. ....	East Peoria.....	5	76	4.6	do..	do..	do..	Mule.	do..	31, 337
4	Ubben Coal Co., No. 1.	Pekin.....	5	90	4.8	do..	do..	do..	do..	do..	29, 672
5	Champion Coal Co., No. 1.	do.....	5	200	4.8	do..	do..	do..	do..	do..	7, 096
6	Lake Erie C. & M. Co., No. 1	Peoria.....	5	100	4.4	do..	do..	do..	do..	do..	11, 190
7	Marion Marteness.....	East Peoria.....	5	.....	4.0	do..	do..	do..	do..	do..	7, 800
8	Gilbelhausen Coal Co. ....	Peoria.....	5	96	4.0	do..	do..	do..	do..	do..	4, 117
9	Grant Bros.....	Pekin.....	5	93	4.6	do..	do..	do..	do..	do..	500
Total—9 mines.....											294, 390
VERMILION COUNTY											
1	Bunsen Coal Co., Vermilion...	Westville.....	6	181	6.6	Sh..	St..	P. R.	Motor	Mac..	792, 315
2	Bunsen Coal Co., No. 4.	do.....	6	164	6.0	do..	do..	do..	do..	Hd..	669, 307
3	Bunsen Coal Co., No. 2.	do.....	6	189	6.0	do..	do..	do..	do..	Mac..	418, 694
4	Bunsen Coal Co., No. 3.	do.....	6	195	5.6	do..	do..	do..	do..	do..	386, 310
5	Dering Coal Co., No. 2.	do.....	6	200	6.0	do..	do..	do..	do..	Hd..	208, 143
6	Dering Coal Co., No. 4.	Steelton.....	6	210	6.0	do..	do..	do..	do..	do..	164, 720
7	Dering Coal Co., No. 3.	do.....	6	190	6.0	do..	do..	do..	do..	do..	144, 428
8	Electric Coal Co., Electric.	Danville.....	6	90	6.0	do..	do..	do..	Mule.	do..	116, 426
9	Danville Colliery Co. ....	Catlin.....	7	153	6.0	do..	do..	do..	do..	do..	112, 738
10	Mission Mining Co. ....	Oakwood.....	7	20	6.0	Str.	do..	do..	do..	do..	62, 240
11	Missionfield Coal Co., No. 3.	Danville.....	7	80	6.0	Sl.	do..	P. R.	Mule.	Hd..	48, 244
12	Tilton Coal Co., Comet.....	do.....	7	100	6.0	Sh..	do..	do..	do..	do..	46, 448
13	Black Diamond C. Co., No. 1.	do.....	7	.....	6.0	Dr.	do..	do..	do..	do..	45, 283
14	Missionfield Coal Co., No. 2.	do.....	7	100	6.0	do..	do..	do..	do..	do..	34, 205





TABLE 72—*Concluded*

Number	Name of operator	Postoffice address of mine	Physical character of mines								Total tons
			Geological number of seam	Depth of coal below the surface—feet	Thickness of seam—feet and inches	Shaft—slope, drift	Hoisting—steam, horse, hand	Long wall, pillar and room	Haulage—hand, mule, cable, electric	Mining—hand, machine, both	
WILLIAMSON COUNTY											
1	Madison Coal Corp., No. 9	Dewmaine	6	110	7.6	Sh.	St.	P. R.	Motor	Hd.	544,369
2	Peabody Coal Co., No. 3	Marion	6	113	9.0	do.	do.	do.	do.	do.	537,195
3	Big Muddy C. & I. Co., No. 8	Clifford	6	180	9.0	do.	do.	do.	do.	Mac.	511,155
4	Johnston City Coal Co., No. 1	Johnston City	6	217	9.0	do.	do.	do.	do.	Hd.	439,868
5	W. P. Rend C. & C. Co., No. 2	Herrin	6	215	9.0	do.	do.	do.	do.	do.	420,241
6	Chicago & Cart. C. Co., A	do.	6	180	9.0	do.	do.	do.	do.	do.	364,888
7	Sunnyside Coal Co., No. 1	do.	6	150	7.6	do.	do.	do.	do.	do.	355,730
8	Madison Coal Corp., No. 8	Dewmaine	6	98	7.6	do.	do.	do.	do.	do.	312,287
9	Western C. M. Co., Bush	Bush	6	118	7.6	do.	do.	do.	do.	do.	294,351
10	So. Ill. C. & C. Co., O. R.	Herrin	6	147	9.0	do.	do.	do.	do.	do.	283,496
11	Cart. Coal Co., Burr C.	Cartersville	6	100	11.0	do.	do.	do.	do.	do.	266,107
12	Big Muddy C. & I. Co., No. 7	Herrin	6	148	9.0	do.	do.	do.	do.	do.	250,082
13	West Va. Coal Co., No. 1	Marion	6	108	7.9	do.	do.	do.	do.	do.	244,154
14	Taylor Coal Co., No. 2	Herrin	6	140	9.0	do.	do.	do.	do.	do.	235,884
15	Cart. & Her. Coal Co., No. 1	do.	6	140	9.0	do.	do.	do.	Mule.	do.	207,728
16	B. M. Fuel Co., N. Va.	Johnston City	6	120	7.6	do.	do.	do.	Motor	do.	201,543
17	Ill. Hocking Washed Coal Co.	Marion	6	100	8.0	do.	do.	do.	do.	Mac.	201,250
18	Standard Col. Co., McC	Johnston City	6	276	8.0	do.	do.	do.	Mule.	do.	197,589
19	Peabody Coal Co., No. 2	Marion	6	86	9.0	do.	do.	do.	Motor	do.	192,259
20	Haer Washed Coal Co., No. 3	Cartersville	6	120	9.0	do.	do.	do.	do.	do.	191,940
21	Chi. & B. M. Coal Co., No. 1	Marion	6	100	9.0	do.	do.	do.	do.	do.	186,837
22	Taylor Coal Co., No. 1	Herrin	6	55	9.0	do.	do.	do.	Mule.	do.	170,400
23	St. L.-Cart. C. Co., Dale	do.	6	100	9.0	do.	do.	do.	Motor	do.	151,247
24	Williamson Co. C. Co., Old Mine	Johnston City	6	172	9.2	do.	do.	do.	do.	do.	148,794
25	Pond Creek Coal Co., Franklin	Herrin	6	240	9.0	do.	do.	do.	Mule.	Mac.	126,867
26	Scranton B. M. C. M. Co., No. 1	Marion	6	160	7.6	do.	do.	do.	do.	Hd.	112,699
27	Chi. & Cart. C. Co., B	Herrin	6	246	9.0	do.	do.	do.	Motor	do.	102,206
28	Cart. & B. M. C. Co., John	Cambria	6	86	9.0	do.	do.	do.	do.	do.	94,978
29	Donaly-Koennicke Coal Co.	Cartersville	6	130	9.6	do.	do.	do.	do.	do.	92,630
30	So. Ill. C. & C. Co., W. R.	Herrin	6	155	11.0	do.	do.	do.	do.	do.	90,719
31	Watson Coal Co., No. 2	do.	6	70	9.0	do.	do.	do.	do.	do.	66,230
32	Pittsburg B. M. C. Co., No. 2	Pittsburg	6	228	6.8	do.	do.	do.	do.	do.	35,396
33	Consolidated C. Co., L. C.	Johnston City	6	320	9.10	do.	do.	do.	Mule.	do.	29,070
34	Brinkley & Miles	Marion	6	12	7.0	Str.	do.	do.	do.	do.	15,000
35	J. S. McNeil	Cartersville	6	18	9.0	Dr.	Ho.	P. R.	Mule.	do.	10,000
36	J. W. Stalcup	do.	6	17	8.6	SL	st.	do.	do.	do.	6,000
37	Charles Young	Marion	6	50	4.0	Sh.	do.	do.	Hd.	do.	4,936
38	Henry Reese	do.	6	20	8.0	Str.	do.	do.	do.	do.	3,800
39	H. T. Simpson	Cartersville	6	25	8.6	SL	St.	P. R.	Mule.	Hd.	3,500
40	T. E. Lewis	Crab Orchard	6	80	9.0	do.	Ho.	do.	Hd.	do.	1,875
41	F. E. Rentfro	do.	6	---	4.4	Dr.	do.	do.	do.	do.	1,310
42	Carter & Sims	do.	6	---	4.4	do.	do.	do.	Mule.	do.	1,200
43	W. S. Tarpley	do.	6	---	4.6	do.	do.	do.	do.	do.	500
44	Ranker & Scott	Marion	6	75	4.0	Sh.	St.	do.	Hd.	do.	400
45	W. E. Connett	Crab Orchard	6	13	5.6	SL	Ho.	do.	Mule.	do.	200
46	H. P. Crain	Crainville	6	30	4.0	do.	St.	do.	Hd.	do.	200
Total—46 mines											7,709,110
WOODFORD COUNTY											
1	Roanoke Coal Co.	Roanoke	2	480	2.8	Sh.	St.	L. W.	Mule.	Hd.	120,868
2	Minonk Coal Co., No. 2	Minonk	2	550	3.0	do.	do.	do.	do.	do.	58,627
Total—2 mines											179,495

Table 73 is a summary of the physical characteristics of the mines.

TABLE 73—SUMMARY OF THE PHYSICAL CHARACTER OF THE COAL MINES OF THE STATE, GEOLOGICAL NUMBER OF SEAMS, MANNER OF WORKING, KIND OF OPENING AND TONS PRODUCED

Geological number of seam	Number of counties	Number of mines	Manner of working			Character of opening			Tons
			Long wall	Pillar and room	Strip	Shaft	Slope	Drift	
1 and 2.....	1	5	.....	5	.....	5	.....	.....	509,317
1.....	6	34	.....	34	.....	21	7	6	500,755
2.....	17	129	24	104	1	58	14	57	4,619,043
3.....	6	14	1	13	.....	8	5	1	80,119
4.....	2	2	.....	2	.....	1	1	.....	13,146
5.....	14	252	4	248	.....	121	31	100	13,534,408
6.....	32	347	.....	343	4	294	25	28	41,326,805
7.....	9	53	1	48	4	23	11	19	1,257,421
16.....	1	4	.....	4	.....	4	.....	.....	5,190
Total.....	.....	840	30	801	9	535	94	211	61,846,204

### FATAL ACCIDENTS

Table 74 shows the number of fatal accidents, number of employees, number of tons mined, number of employees to each death, the ratio of fatalities to 1,000 men employed and the number of tons mined to each death.

TABLE 74—FATAL CASUALTIES BY DISTRICTS

Districts	Killed			Employees			Total tons of coal mined	Number of employees to each death	Ratio per 1,000 employed	Number of tons of coal to each death
	Total number	Under ground	Above ground	Under ground	Above ground	total				
First.....	3	3	.....	4,399	458	4,857	2,250,206	1,619	0.6	750,069
Second.....	6	5	1	4,312	392	4,704	2,392,316	784	1.3	398,719
Third.....	12	12	.....	4,692	473	5,165	3,109,287	430	2.3	259,107
Fourth.....	2	2	.....	3,423	319	3,742	2,575,195	1,871	0.5	1,287,598
Fifth.....	24	24	.....	6,456	640	7,096	5,580,378	296	3.4	232,516
Sixth.....	16	16	.....	7,193	669	7,862	6,293,685	491	2.0	393,355
Seventh.....	14	13	1	7,041	603	7,644	7,632,256	546	1.8	545,161
Eighth.....	17	17	.....	6,971	650	7,621	6,347,492	449	2.2	373,382
Ninth.....	9	7	2	5,217	490	5,707	4,740,212	634	1.6	526,690
Tenth.....	8	8	.....	4,447	471	4,918	3,365,176	615	1.6	420,647
Eleventh.....	41	41	.....	10,049	925	10,974	9,849,807	268	3.7	240,239
Twelfth.....	23	22	1	8,293	914	9,207	7,710,194	400	2.5	335,226
The State ..	175	170	5	72,493	7,004	79,497	61,846,204	454	2.2	353,407

Table 75 gives the record of fatalities for thirty-one years. The number of tons mined to each life lost this year is much greater than for any year of the series.

TABLE 75—FATAL ACCIDENTS FOR THIRTY-ONE YEARS

Year	Number killed	Total number of employees	Total tons of coal mined	Number of employees to each life lost	Ratio per 1,000	Number of tons of coal produced to each life lost
1883.....	134	23,939	12,123,456	179.6	5.6	90,474
1884.....	46	25,575	12,208,075	566	1.8	265,393
1885.....	39	25,946	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	288,203
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,862,276	590	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	38,477	17,113,576	534	2.2	237,688
1895.....	75	38,630	17,735,864	515	2.3	236,478
1896.....	77	37,057	19,786,626	481	2.3	256,969
1897.....	69	33,788	20,072,758	489.7	2.0	290,910
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,982
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
1904.....	157	54,774	37,077,897	348.9	2.9	236,165
1905.....	199	59,230	37,183,374	298	3.4	186,851
1906.....	155	62,283	38,317,581	402	2.5	247,210
1907.....	165	66,714	47,798,621	404	2.5	289,689
1908.....	183	70,841	49,272,452	387	2.6	269,248
1909.....	213	72,733	49,163,710	341.5	2.9	230,816
1910.....	406	74,634	48,717,853	183.8	5.4	119,997
1911.....	157	77,410	50,165,099	493	2.0	319,523
1912.....	180	79,411	57,514,240	441	2.3	319,524
1913.....	175	79,497	61,846,204	454	2.2	353,407
Average—31 years.....	114	45,645	27,981,374	400	2.5	245,173

Table 76 shows the average number of men killed, employees, production and ratio for the nine years, 1883 to 1891, and for the succeeding twenty-two years.

TABLE 76—FATAL ACCIDENTS, AVERAGES AND PROPORTIONS FOR NINE YEARS, 1883-1891, AND FOR THE SUCCEEDING TWENTY-TWO YEARS, 1892-1913

Number of years	Average			Proportion of—		Ratio per 1,000
	Killed	Employees	Tons mined	Employees to each life lost	Tons to each life lost	
9 years.....	58	27,623	13,227,245	476.3	208,899	2.1
10 years.....	58	28,224	13,610,748	487.5	235,073	2.1
11 years.....	59	28,876	14,187,004	490.2	240,829	2.0
12 years.....	60	29,189	14,430,885	486.5	240,515	2.1
13 years.....	61	29,402	14,685,114	481	240,134	2.1
14 years.....	62	29,663	15,049,508	464.8	241,621	2.1
15 years.....	63	29,938	15,384,391	479	245,235	2.1
16 years.....	64	30,256	15,585,323	476.5	245,438	2.1
17 years.....	65	30,652	16,047,036	473.7	248,000	2.1
18 years.....	66	31,137	16,552,974	469.4	249,568	2.1
19 years.....	68	31,822	17,083,624	467.6	251,035	2.1
20 years.....	70	32,531	17,730,508	467.4	254,748	2.1
21 years.....	74	33,354	18,550,741	452.5	251,657	2.2

TABLE 76—*Concluded*

Number of years	Average			Proportion of—		Ratio per 1,000
	Killed	Employees	Tons mined	Employees to each life lost	Tons to each life lost	
22 years.....	78	34,328	19,392,884	442.9	250,231	2.3
23 years.....	83	35,410	20,166,384	427.8	243,607	2.3
24 years.....	86	36,530	20,922,767	425	243,288	2.4
25 years.....	89	37,737	21,997,733	424	247,277	2.3
26 years.....	93	39,665	23,077,519	428	249,279	2.3
27 years.....	97	40,890	24,043,674	421	247,778	2.4
28 years.....	108	42,095	24,924,894	389.4	230,557	2.6
29 years.....	110	43,313	25,795,350	394.6	235,019	2.5
30 years.....	112	44,516	26,852,546	397.1	239,541	2.5
31 years.....	114	45,645	27,981,374	400	245,173	2.5

Table 77 gives the causes of the 115 fatalities which occurred during the year.

TABLE 77—FATAL ACCIDENTS, BY CAUSES, WITH PERCENTAGES

Number	Causes	Total	Districts												Percentages
			1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th	
1	Asphyxiated.....	7	---	---	1	---	---	1	---	---	---	---	4	1	4.00
2	Blown out charge.....	1	---	---	---	---	---	---	---	---	---	---	1	1	.57
3	Cage.....	3	---	---	---	---	---	---	---	---	---	---	2	1	1.72
4	Coal fell down shaft.....	1	---	---	---	---	---	---	---	---	1	---	---	---	.57
5	Drowned.....	1	---	---	---	---	---	---	1	---	---	---	---	---	.57
6	Dynamite explosion.....	1	---	---	---	---	---	---	---	---	---	---	1	---	.57
7	Electrocuted.....	6	---	---	3	---	---	---	1	---	---	---	2	---	3.43
8	Falling Coal.....	21	---	1	1	---	6	---	4	2	---	---	7	---	12.00
9	Falling jack.....	1	---	---	---	---	---	---	---	---	---	---	1	---	.57
10	Falling prop.....	1	---	---	---	---	---	---	---	1	---	---	---	---	.57
11	Falling rock.....	25	2	---	1	1	8	---	1	---	---	---	12	---	14.28
12	Falling slate.....	35	---	1	---	---	2	6	7	5	4	1	---	9	20.00
13	Fell down shaft.....	5	---	---	---	---	1	---	---	1	---	1	2	---	2.86
14	Fell in tank hot water.....	1	---	---	---	---	---	---	---	---	1	---	---	---	.57
15	Fell off cage.....	1	---	---	---	---	---	---	---	---	---	---	---	1	.57
16	Flying coal.....	1	---	---	1	---	---	---	---	---	---	---	---	---	.57
17	Gas explosion.....	3	---	---	---	---	---	2	---	---	---	---	1	---	1.72
18	Machine.....	1	---	---	---	---	---	---	1	---	---	---	---	---	.57
19	Motor.....	3	1	---	---	---	---	---	---	---	1	1	---	---	1.72
20	Mule, kicked by.....	2	---	---	---	---	---	---	---	---	---	2	---	---	1.14
21	Pit cars.....	45	---	3	3	1	7	6	1	5	1	2	8	8	25.71
22	Powder explosion.....	3	---	---	---	---	---	1	1	---	---	---	1	---	1.72
23	Railroad cars.....	2	---	1	---	---	---	---	---	---	1	---	---	---	1.14
24	Shot explosion.....	4	---	---	2	---	---	---	---	1	---	---	---	1	2.29
25	Wheel.....	1	---	---	---	---	---	---	---	---	---	---	---	1	.57
Total.....		175	3	6	12	2	24	16	14	17	9	8	41	23	100.00

Table 78 shows, for a series of twenty-six years, by seven leading causes, the record of fatal accidents. The totals and percentages are shown at the bottom of the table.

TABLE 78—FATAL ACCIDENTS FOR TWENTY-SIX YEARS, BY LEADING CAUSES

Years	Total	Leading causes								Other causes		
		Blasts and explosions	Cages	Falling coal, rock and roof	Falling down shaft	Fire, black and white damp	Pit cars	Railway cars	Total	Percentages	Total	Percentages
1888.....	55	9	2	33	4	.....	6	1	55	100.0	.....	.....
1889.....	42	3	4	26	2	.....	5	.....	40	95.2	2	4.8
1890.....	53	4	4	36	.....	5	3	1	53	100.0	.....	.....
1891.....	60	11	4	33	1	4	2	2	57	95.0	3	5.0
1892.....	57	4	4	28	8	3	6	1	54	94.7	3	5.3
1893.....	69	6	4	48	3	2	2	1	66	95.7	3	4.3
1894.....	72	8	8	43	5	.....	6	2	72	100.0	.....	.....
1895.....	75	12	4	38	4	5	5	1	69	92.0	6	8.0
1896.....	77	9	5	41	6	2	7	1	71	92.2	6	7.8
1897.....	69	11	.....	46	5	2	1	1	66	95.7	3	4.3
1898.....	75	11	2	43	4	7	2	1	70	93.3	5	6.7
1899.....	84	4	5	51	4	4	6	1	75	89.3	9	10.7
1900.....	94	17	4	51	1	1	11	2	87	92.6	7	7.4
1901.....	99	3	1	57	1	1	11	.....	74	74.7	25	25.3
1902.....	99	13	2	55	7	.....	15	2	94	95.0	5	5.0
1903.....	156	47	6	77	2	.....	18	.....	150	96.2	6	3.8
1904.....	157	44	4	65	8	.....	21	2	144	91.7	13	8.3
1905.....	199	82	6	80	4	3	10	1	186	93.5	13	6.5
1906.....	155	24	5	84	9	.....	18	4	144	92.9	11	7.1
1907.....	165	24	8	84	6	4	28	4	158	95.8	7	4.2
1908.....	183	36	1	91	3	.....	35	8	174	95.1	9	4.9
1909.....	213	69	4	84	5	4	24	8	198	93.0	15	7.0
1910.....	406	33	6	65	3	260	21	3	391	96.3	15	3.7
1911.....	157	10	2	80	5	.....	28	2	127	80.9	30	19.1
1912.....	180	2	3	98	6	9	34	2	154	85.6	26	14.4
1913.....	175	13	3	81	5	7	45	2	156	89.1	19	10.9
Total, 26 yrs.	3,226	509	101	1,518	111	323	370	53	2,985	92.5	241	7.5
Percentages, 26 yrs	100.00	15.8	3.1	47.1	3.4	10.0	11.5	1.6	92.5	.....	7.5	.....

Table 79. In this table is shown the number of fatal accidents caused by powder, and other causes, for the year and for the twelve preceding years.

TABLE 79—FATAL ACCIDENTS FROM POWDER, GAS, FALLS, PIT CARS AND VARIOUS CAUSES FOR THE YEAR AND FOR THE TWELVE PRECEDING YEARS

Districts and years	Causes—use of powder					Total from use of powder	Other causes				Totals	
	Blast explosions	Blasts, premature	Blown out charge	Powder explosions	Flying coal		Gas explosions	Falling coal, rock, etc.	Pit cars	Various	From other causes	From all causes
First.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	3	3
Second.....	.....	.....	.....	.....	.....	.....	.....	2	3	1	6	6
Third.....	2	.....	.....	.....	1	3	.....	2	3	4	9	12
Fourth.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2	2
Fifth.....	.....	.....	.....	.....	.....	.....	16	7	1	1	24	24
Sixth.....	.....	.....	.....	1	.....	1	6	6	6	1	15	16
Seventh.....	.....	.....	.....	1	.....	1	.....	11	1	1	13	14
Eighth.....	1	.....	.....	.....	.....	1	.....	8	5	3	16	17
Ninth.....	.....	.....	.....	.....	.....	.....	.....	4	1	4	9	9
Tenth.....	.....	.....	.....	.....	.....	.....	.....	1	2	5	8	8
Eleventh.....	.....	.....	.....	1	.....	1	1	19	8	12	40	41
Twelfth.....	1	.....	1	.....	.....	2	.....	9	8	4	21	23

TABLE 79—*Concluded*

Districts and years	Causes—use of powder					Total from use of powder	Other causes				Totals	
	Blast explo- sions	Blasts, pre- mature	Blown out charge	Powder ex- plosions	Flying coal		Gas explo- sions	Falling coal, rock, etc.	Pit cars	Various	From other causes	From all causes
1913.....	4	.....	1	3	1	9	3	81	45	37	166	175
1912.....	2	4	.....	3	3	12	3	98	34	33	168	180
1911.....	3	4	1	2	.....	10	8	80	28	31	147	157
1910.....	4	2	.....	7	4	17	16	65	21	287	389	406
1909.....	16	2	.....	10	1	29	40	84	24	36	184	213
1908.....	9	4	5	8	3	29	7	91	35	21	154	183
1907.....	1	1	11	10	1	24	4	84	28	25	141	165
1906.....	4	1	2	5	10	22	2	84	18	29	133	155
1905.....	8	2	7	8	9	34	48	80	10	27	165	199
1904.....	3	16	2	14	2	44	.....	65	21	27	113	157
1903.....	25	11	.....	3	2	41	8	79	18	10	115	156
1902.....	2	9	.....	3	3	17	.....	55	15	12	82	99
1901.....	1	8	.....	3	8	20	1	57	11	10	79	99
Thirteen years.....	82	64	29	79	54	308	140	1,003	308	585	2,036	2,344

Table 80 gives the percentages of the numbers shown in Table 79.

TABLE 80—PERCENTAGES OF FATAL CASUALTIES FOR THIRTEEN YEARS, BY CAUSES

Year	Percentages—														
	Use of powder					From powder, other named causes and all causes	Other causes				All causes				
	Blast explosions	Blast, premature	Blown out charge	Powder explosions	Flying coal		Gas explosions	Falling coal, rock, etc.	Pit cars	Various	Blast, powder, etc.	Gas explosions	Falling rock, coal, etc.	Pit cars	Various
1901.....	5.0	40.0	.....	15.0	40.0	100.00	1.3	72.1	13.9	12.7	20.2	1.0	57.6	11.1	10.1
1902.....	11.8	52.9	.....	17.6	17.7	100.00	.....	67.1	18.3	14.6	17.2	.....	55.6	15.1	12.1
1903.....	61.0	26.8	.....	7.3	4.9	100.00	7.0	68.7	15.6	8.7	26.3	5.1	50.7	11.5	6.4
1904.....	6.8	36.4	4.5	31.8	20.5	100.00	.....	57.5	18.6	23.9	28.0	.....	41.4	13.4	17.2
1905.....	23.5	5.9	20.6	23.5	26.5	100.00	29.1	48.5	6.0	16.4	17.1	24.1	49.2	5.0	13.6
1906.....	18.2	4.5	9.1	22.7	45.5	100.00	1.5	63.2	13.5	21.8	14.2	1.3	54.2	11.6	18.7
1907.....	4.2	4.2	45.8	41.6	4.2	100.00	2.8	59.6	19.9	17.7	15.6	2.4	50.9	17.0	15.1
1908.....	31.0	13.8	17.2	27.6	10.4	100.00	4.6	59.1	22.7	13.6	15.9	3.8	49.7	19.1	11.5
1909.....	55.2	6.9	.....	34.5	3.4	100.00	21.7	45.7	13.0	19.6	13.6	18.8	39.4	11.3	16.9
1910.....	23.5	11.8	.....	41.2	23.5	100.00	4.3	16.7	5.4	73.6	4.2	4.2	16.0	5.1	70.5
1911.....	30.0	40.0	10.0	20.0	.....	100.00	5.4	54.4	19.1	21.1	6.4	5.1	51.0	17.8	19.7
1912.....	16.7	33.3	.....	25.0	25.0	100.00	1.8	58.3	20.2	19.7	6.7	1.7	54.4	18.9	18.3
1913.....	44.5	11.1	11.1	33.3	11.1	100.00	1.8	48.8	27.1	22.3	5.1	1.7	46.3	25.7	21.2
Thirteen yrs.	26.6	20.8	9.4	25.7	17.5	100.00	6.9	49.3	15.1	28.7	13.1	6.0	42.8	13.1	25.0

Table 81 shows the number of fatal and non-fatal accidents for the year caused by powder, falling coal, rock, etc., and other causes, with percentages.

TABLE 81—FATAL AND NON-FATAL ACCIDENTS CAUSED PRIMARILY BY EXPLOSIONS OF POWDER, FALLING COAL, ROCK, ETC., AND ALL OTHER CAUSES, WITH PERCENTAGES

Causes	Casualties		Percentages		All casualties	Per-centages
	Fatal	Non-fatal	Fatal	Non-fatal		
Blast explosions.....	4	11	44.5	36.7	15	38.5
Blown out charge.....	1	.....	11.1	.....	1	2.5
Powder explosions.....	3	6	33.3	20.0	9	23.1
Flying coal.....	1	13	11.1	43.3	14	35.9
Total.....	9	30	100.0	100.0	39	100.0
Falling coal, rock, etc.....	81	442	48.8	44.4	523	45.1
All other causes.....	85	553	51.2	55.6	638	54.9
Total.....	166	995	100.0	100.0	1,161	100.0
Grand total.....	175	1,025	14.6	85.4	1,206	100.0

Table 82 gives the record of fatal accidents caused by falling roof and sides, and all other causes, with percentages, each year for thirty-one years. The number of employees, tons produced, and total deaths is given from year to year, and the totals for the series shown at the bottom of the table.

TABLE 82—FATAL ACCIDENTS IN COAL MINES, CAUSED BY FALLS IN MINES AND FROM ALL OTHER CAUSES, THE TOTAL NUMBER OF MEN AND TONS, WITH PERCENTAGES FOR THIRTY-ONE YEARS

Years	Persons employed	Total tons	Total deaths	Causes		Percentage by—	
				Falls	Other causes	Falls	Other causes
1883.....	23,939	12,123,456	134	40	94	29.9	70.1
1884.....	25,575	12,208,076	46	29	17	63.0	37.0
1885.....	25,946	11,834,459	39	20	19	51.3	48.7
1886.....	25,846	11,175,241	52	32	20	61.5	38.5
1887.....	26,804	12,423,066	41	28	13	68.3	31.7
1888.....	29,410	14,328,181	55	33	22	60.0	40.0
1889.....	30,076	14,017,298	42	26	16	61.9	38.1
1890.....	28,574	15,274,727	53	36	17	67.9	32.1
1891.....	32,951	15,660,698	60	33	27	55.0	45.0
1892.....	33,632	17,862,276	57	28	29	49.1	50.9
1893.....	35,390	19,949,564	69	48	21	69.6	30.4
1894.....	38,477	17,113,576	72	43	29	59.7	40.3
1895.....	38,630	17,735,864	75	38	37	50.7	49.3
1896.....	37,032	19,786,623	77	41	36	53.2	46.8
1897.....	33,788	20,072,758	69	46	23	66.7	33.3
1898.....	35,026	18,599,299	75	43	32	57.3	42.7
1899.....	36,991	23,434,445	84	51	33	60.7	39.3
1900.....	39,384	25,153,929	94	51	43	54.3	45.7
1901.....	44,143	26,635,319	99	57	42	57.6	42.4
1902.....	46,005	30,021,306	99	55	44	55.6	44.4
1903.....	49,814	34,955,400	156	56	80	48.7	51.3
1904.....	54,774	37,077,897	157	65	92	41.4	58.6
1905.....	59,230	37,183,374	199	80	119	40.2	59.8
1906.....	62,283	38,317,581	155	84	71	54.2	45.8
1907.....	66,714	47,798,621	165	84	81	50.9	49.1
1908.....	70,841	49,272,452	183	91	92	49.7	50.3
1909.....	72,733	49,163,710	213	84	129	39.4	60.6
1910.....	74,634	48,717,853	406	65	341	16.0	84.0
1911.....	77,410	50,165,099	157	80	77	51.0	49.0
1912.....	79,411	57,514,240	180	98	82	54.4	45.6
1913.....	79,497	61,846,204	175	81	94	46.3	53.7
Total—31 years....	1,414,985	867,422,588	3,538	1,666	1,872	47.1	52.9



Table 83 shows the occupation and conjugal relation of the men killed.

TABLE 83—OCCUPATION AND CONJUGAL RELATION OF MEN KILLED

Occupations	Total killed	Percentages	Conjugal relations					Average age
			Married	Single	Widows	Children	De-pendants	
Cagers.....	3	1.71	3	.....	3	6	7	36.3
Car trimmer.....	1	.57	.....	1	.....	.....	.....	24.0
Drivers.....	29	16.57	12	17	12	22	36	26.4
Electrician.....	1	.57	.....	1	1	3	4	47.0
Fireman.....	1	.57	.....	1	.....	.....	.....	28.0
Laborers.....	12	6.86	6	6	6	18	17	33.5
Loaders.....	8	4.57	5	3	5	25	27	39.6
Machine helpers.....	8	4.57	2	6	2	5	7	29.4
Machine runners.....	4	2.29	2	2	2	6	8	32.8
Mine examiner.....	1	.57	.....	1	1	6	3	57.0
Miners.....	81	46.29	53	28	53	127	152	36.0
Motormen.....	3	1.71	2	1	2	4	6	26.0
Shot firers.....	4	2.29	4	.....	4	6	10	27.8
Timbermen.....	7	4.00	5	2	5	9	14	39.1
Trackmen.....	2	1.15	1	1	1	3	4	30.5
Trappers.....	6	3.43	.....	6	.....	.....	.....	18.0
Tripriders.....	3	1.71	1	2	1	1	2	21.3
Weighman.....	1	.57	1	.....	1	4	5	42.0
Total.....	175	100.00	99	76	99	245	302	33.0

Table 84 shows the occupational casualties, fatal and non-fatal, in ten leading occupations.

TABLE 84—OCCUPATIONAL CASUALTIES, FATAL AND NON-FATAL, NUMBER OF EMPLOYEES IN EACH OCCUPATION, PERCENTAGES AND RATIO, SHIPPING MINES

Classification of occupations	Total number of employees in each class	Number of casualties in each class		Percentage of each class—		Number employed in each class to one man—		Ratio per 1,000 employed in each class—		Average ages of the—	
		Fatal	Non-fatal	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Cagers.....	839	3	29	0.36	3.46	280	26	3.58	34.56	36	32
Drivers.....	4,635	28	201	0.60	4.34	166	23	6.04	43.37	26	26
Laborers.....	4,931	12	78	0.24	1.58	411	63	2.43	15.82	34	34
Loaders.....	16,679	8	54	0.05	.32	2,085	309	.48	3.24	40	39
Machinemmen.....	3,590	12	76	0.33	2.12	299	47	3.34	21.17	31	33
Miners.....	33,319	80	433	0.24	1.30	416	77	2.40	13.00	36	38
Shot firers.....	605	4	10	0.66	1.65	151	61	6.61	16.53	28	33
Timbermen.....	1,301	7	30	0.54	2.31	186	43	5.38	23.06	39	42
Trackmen.....	1,719	2	21	0.12	1.22	859	82	1.16	12.22	31	39
Trappers.....	1,208	6	12	0.50	.99	201	101	4.97	9.93	18	19
Total classified.....	68,826	162	944	0.24	1.37	425	73	2.35	13.72	33	34
Not classified.....	8,029	11	72	0.14	.90	730	111	1.37	8.97	31	34
Total.....	76,855	173	1,016	0.23	1.32	444	76	2.25	13.22	33	34

Table 85 gives, by occupations, the range of ages and the average age of the men killed.

TABLE 85—TOTAL NUMBER KILLED, RANGE OF AGES AND AVERAGE AGE, BY OCCUPATIONS

Occupations	Total killed	Range of ages										Average age
		Under 21	20 but under 25	25 but under 30	30 but under 35	35 but under 40	40 but under 45	45 but under 50	50 but under 55	55 but under 60	60 and over	
Cagers.....	3	—	—	1	—	1	—	1	—	—	—	36.3
Cartrimmer.....	1	—	1	—	—	—	—	—	—	—	—	24.0
Drivers <sup>1</sup> .....	29	6	10	4	5	1	3	—	—	—	—	26.4
Electrician.....	1	—	—	—	—	—	—	1	—	—	—	47.0
Fireman.....	1	—	—	1	—	—	—	—	—	—	—	28.0
Laborers <sup>2</sup> .....	12	1	1	3	3	—	2	1	—	1	—	33.5
Loaders <sup>3</sup> .....	8	—	1	1	2	—	—	2	1	—	1	39.6
Machine helpers <sup>4</sup> .....	8	1	—	4	1	2	—	—	—	—	—	29.4
Machine runners.....	4	—	—	1	1	2	—	—	—	—	—	32.8
Mine examiner.....	1	—	—	—	—	—	—	—	—	1	—	57.0
Miners <sup>5</sup> .....	81	3	12	16	10	13	10	4	3	5	5	36.0
Motormen.....	3	—	2	—	1	—	—	—	—	—	—	26.0
Shot firers.....	4	—	—	—	—	—	—	—	—	—	—	27.8
Timbormen <sup>6</sup> .....	7	1	1	4	—	—	2	1	1	1	—	39.1
Trackmen.....	2	—	—	1	—	1	—	—	—	—	—	30.5
Trappers <sup>7</sup> .....	6	6	—	—	—	—	—	—	—	—	—	18.0
Trip riders.....	3	—	3	—	—	—	—	—	—	—	—	21.3
Weighman.....	1	—	—	—	—	—	1	—	—	—	—	42.0
Total.....	175	18	31	36	23	20	18	10	5	8	6	33.0

<sup>1</sup> Six, 19 years.

<sup>2</sup> One, 19 years.

<sup>3</sup> One, 61 years.

<sup>4</sup> Two, 18 years.

<sup>5</sup> One, 18; two, 19; one, 62; one, 64; one, 66; one, 71; one, 72 years.

<sup>6</sup> One, 19 years.

<sup>7</sup> Two, 17; two, 18. two, 19 years.

### NON-FATAL ACCIDENTS

Table 86 shows the number of non-fatal accidents by districts. The number injured is 225 more than last year and the tonnage produced to each man injured is 60,338, while in 1912 it was 71,893.

TABLE 86—NON-FATAL ACCIDENTS BY DISTRICTS

Districts	Number injured	Injured		Number of employees			Total tons of coal mined	Number of employees to one man injured	Ratio per 1,000	Number of tons mined to each man injured
		Under ground	Above ground	Under ground	Above ground	Total				
First.....	80	80	—	4,399	458	4,857	2,250,206	61	16.5	28,128
Second.....	128	123	5	4,312	392	4,704	2,392,316	37	27.2	18,690
Third.....	60	59	1	4,692	473	5,165	3,109,287	86	11.6	51,821
Fourth.....	18	17	1	3,423	319	3,742	2,575,195	208	4.8	143,066
Fifth.....	99	98	1	6,456	640	7,096	5,580,378	72	14.0	56,367
Sixth.....	40	37	3	7,193	669	7,862	6,293,685	197	5.1	157,342
Seventh.....	99	96	3	7,041	603	7,644	7,632,256	71	13.0	77,093
Eighth.....	167	161	6	6,971	650	7,621	6,347,492	46	21.9	38,009
Ninth.....	41	39	2	5,217	490	5,707	4,740,212	139	7.2	115,615
Tenth.....	27	26	1	4,447	471	4,918	3,365,176	182	5.5	124,636
Eleventh.....	200	193	7	10,049	925	10,974	9,849,807	55	18.2	49,249
Twelfth.....	66	62	4	8,293	914	9,207	7,710,194	140	7.2	116,821
The State.....	1,025	991	34	72,493	7,004	79,497	61,846,204	78	12.9	60,338

Table 87 gives the record of non-fatal accidents for thirty-one years.

TABLE 87—NON-FATAL ACCIDENTS FOR THIRTY-ONE YEARS

Year	Number of men injured	Total number of employes	Total number of tons of coal mined	Number of employees to one man injured	Ratio per 1,000	Number of tons of coal produced to one man injured
1883.....	231	23,939	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,946	11,834,459	147	6.8	67,241
1886.....	171	25,846	11,175,241	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,862,276	91	11.0	48,276
1893.....	403	35,390	19,949,564	88	11.4	49,503
1894.....	521	38,477	17,113,576	74	13.5	32,848
1895.....	605	38,630	17,735,864	64	15.7	29,315
1896.....	672	37,032	19,786,626	55	18.1	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,168
1901.....	422	44,142	26,635,319	104	9.6	63,117
1902.....	406	46,005	30,021,900	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
1904.....	507	54,774	37,077,897	108	9.3	73,132
1905.....	535	59,230	37,183,374	111	9.0	69,502
1906.....	480	62,283	38,317,581	130	7.7	79,828
1907.....	636	66,714	47,798,621	105	9.5	75,155
1908.....	819	70,841	49,272,452	86	11.6	60,162
1909.....	894	72,733	49,163,710	81	12.3	54,993
1910.....	742	74,634	48,717,853	101	9.9	65,657
1911.....	709	77,410	50,165,099	109	9.2	70,755
1912.....	800	79,411	57,514,240	99	10.1	71,893
1913.....	1,025	79,497	61,846,204	78	12.9	60,338
Average—31 years.....	488	45,645	27,981,374	94	10.7	57,384

Table 88. In this table a list of the occupations in which the injured were employed is given, and is by districts.

TABLE 88—NON-FATAL ACCIDENTS BY OCCUPATIONS, WITH TOTALS AND PERCENTAGES, BY DISTRICTS

Occupations	Districts												Total	Per-cent-ages
	1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th		
Blacksmiths.....	—	—	—	1	1	—	3	—	1	—	1	—	7	0.7
Cagers.....	2	—	—	1	3	6	3	7	5	—	2	1	30	2.9
Carpenters.....	—	1	—	—	—	—	—	—	1	—	1	—	3	0.3
Cartrimmer.....	—	—	—	1	—	—	—	1	—	—	—	—	1	0.1
Couplers.....	—	—	—	1	1	—	—	2	—	—	—	—	6	0.6
Drivers.....	10	16	11	5	13	11	17	44	5	5	42	23	202	19.7
Electricians.....	—	—	—	—	13	—	—	—	—	—	2	—	2	0.2
Fireman.....	—	—	—	—	—	—	—	—	—	—	1	—	1	0.1
Foreman.....	—	—	—	—	—	—	—	—	—	—	—	1	1	0.1
Laborers.....	1	14	—	2	6	5	12	11	5	5	13	5	79	7.7
Loaders.....	—	—	—	—	—	—	1	25	6	—	19	3	54	5.3
Machine helpers.....	—	—	—	—	1	1	1	16	1	2	8	1	31	3.0
Machine runners.....	—	—	1	1	5	—	7	5	3	—	21	2	45	4.4
Mechanics.....	—	—	—	—	—	—	—	2	1	—	—	—	4	0.4
Mine examiners.....	—	—	—	1	—	—	—	—	—	—	1	—	2	0.2
Mine managers' assistants.....	—	—	—	—	—	2	—	—	—	—	—	—	2	0.2
Miners.....	59	91	46	5	58	15	37	40	6	13	51	17	438	42.7
Motormen.....	—	1	—	—	—	—	1	2	1	—	2	1	8	0.8

TABLE 88—*Concluded*

Occupations	Districts												Total	Per- cent- ages
	1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th		
Pumpman.....												1	1	0.1
Shothrers.....							3	1		2	3	1	10	1.0
Spraggers.....		1			2		1	1			4		9	0.9
Superintendent.....							1						1	0.1
Timbermen.....		2		1	5		4	3	4		6	5	30	2.9
Trackmen.....	8				3		3	2	1		4	1	22	2.1
Trappers.....		2					1	3			4	2	12	1.2
Tripriders.....			1		1		3	2	1		13	2	23	2.2
Weighman.....			1										1	0.1
Total.....	80	128	60	18	99	40	99	167	41	27	200	66	1,025	100.0
Percentages.....	7.8	12.5	5.8	1.8	9.7	3.9	9.7	16.3	4.0	2.6	19.5	6.4	100.0	.....

Table 89. The conjugal relation of the men injured, the number reporting time lost, the total number of days lost and the average for each man is given.

TABLE 89—NON-FATAL ACCIDENTS, CONJUGAL RELATIONS OF THE INJURED, DEPENDENTS AND TIME LOST, BY DISTRICT

Districts	Total number injured	Married	Single	Children	Depend- ents	Number re- porting time lost	Total days lost	Average days lost
First.....	80	57	23	168	189	64	4,437	69.33
Second.....	128	72	56	198	258	87	4,858	55.72
Third.....	60	38	22	115	116	56	3,183	56.84
Fourth.....	18	11	7	22	28	17	1,042	61.29
Fifth.....	99	66	33	203	253	99	6,440	65.01
Sixth.....	40	20	20	37	54	38	1,790	47.11
Seventh.....	99	56	43	97	152	94	6,096	64.85
Eighth.....	167	99	68	236	307	147	8,902	60.56
Ninth.....	41	25	16	77	102	40	2,160	54.00
Tenth.....	27	15	12	51	58	25	1,091	43.64
Eleventh.....	200	102	98	166	250	156	10,698	57.52
Twelfth.....	66	37	29	79	115	63	3,678	59.97
The State ....	1,025	598	427	1,449	1,882	916	54,375	59.36

Table 90 shows twenty-one causes of the accidents which resulted in the injury of the 1,025 men. The table gives the number from each cause by districts and also the percentages.

TABLE 90—NON-FATAL ACCIDENTS, BY CAUSES, WITH TOTALS AND PERCENTAGES, BY DISTRICTS

Causes	Districts												Total	Per- cent- ages
	1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th		
Blast explosions.....							2	2		3	3	1	11	1.07
Cage.....	1	1	1	1		1		2		1	2	1	11	1.07
Caught between objects.....			1	1				1			1		4	.39
Coal fell down shaft.....						3		3	3			1	10	.98
Electric current.....							1		1	1			3	.29
Engine.....										1	1		2	.19
Falling articles.....	1			1	3	3	6	6	1	1	6	4	32	3.12

TABLE 90—*Concluded*

Causes	Districts												Total	Per- cent- ages
	1st	2d	3d	4th	5th	6th	7th	8th	9th	10th	11th	12th		
Falling coal, roof, etc. ....	47	82	38	7	64	12	41	54	13	11	56	17	442	43.12
Fell down. ....		1			1		3	2	1		3	3	14	1.37
Fire, heat, hot water. ....		1			1		1				3		6	.59
Flying articles. ....	4		2				1		2				9	.88
Flying coal. ....	4	1	3		2		1				1	1	13	1.27
Gas explosion. ....					2	2	5	2			18	4	33	3.22
Lifting weight. ....	3						2	3					8	.78
Machine. ....			1		3		6	11	2	2	12		37	3.61
Motor. ....		1			1	2	1	1	1		5		12	1.17
Mule, kicked by. ....	3	2	3		3	3	2	10	1	1	2	4	34	3.32
Pit cars. ....	15	32	11	8	19	13	28	56	11	5	78	24	300	29.27
Powder explosion. ....									1		4	1	6	.59
Railroad cars. ....		1		1		1		4			1	3	11	1.07
Struck by articles. ....	2	5					1	11	1	1	4	2	27	2.63
Total. ....	80	128	60	18	99	40	99	167	41	27	200	66	1,025	100.00
Percentages. ....	7.8	12.5	5.8	1.8	9.7	3.9	9.7	16.3	4.0	2.6	19.5	6.4	100.0	.....

Table 91 gives the non-fatal accidents for 1913 and for the twelve preceding years from the use of powder and other causes.

TABLE 91—NON-FATAL ACCIDENTS, BY CAUSES, FOR 1913 AND FOR THE TWELVE PRECEDING YEARS, BY DISTRICTS

Districts and years	Use of powder					Total from use of powder	Other causes				Total	
	Blast explosions	Blast, premar- ture	Blown out charge	powder explo- sions	Flying coal		Gas explosions	Falling coal, rock, etc.	Pit cars	Various	From other causes	From all causes
First. ....					4	4		47	15	14	76	80
Second. ....					1	1		82	32	13	127	128
Third. ....					3	3		38	11	8	57	60
Fourth. ....								7	8	3	18	18
Fifth. ....					2	2	2	64	19	12	97	99
Sixth. ....							2	12	13	13	40	40
Seventh. ....	2				1	3	5	41	28	22	96	99
Eighth. ....	2					2	2	54	56	53	165	167
Ninth. ....				1		1		13	11	16	40	41
Tenth. ....	3					3		11	5	8	24	27
Eleventh. ....	3			4	1	8	18	56	78	40	192	200
Twelfth. ....	1			1	1	3	4	17	24	18	63	66
1913. ....	11			6	13	30	33	442	300	220	995	1,025
1912. ....	2	2	2	5	10	21	23	364	210	182	779	800
1911. ....	1	3	3	6	6	19	11	327	211	141	690	709
1910. ....	2	10	1	7	8	28	14	369	188	143	714	742
1909. ....	14	3		11	10	38	25	423	249	159	856	894
1908. ....	8	3		11	14	36	35	402	209	137	783	819
1907. ....	8	4	7	16	15	50	9	327	171	79	586	636
1906. ....	7	1	6	9	9	32	6	253	110	79	448	480
1905. ....	13	3	6	15	13	50	3	269	129	84	485	535
1904. ....	6	5	2	29	12	54	6	264	123	60	453	507
1903. ....	13	3	12	7	12	47	5	164	128	66	363	410
1902. ....	15	1	1	6	5	28	2	198	125	53	378	406
1901. ....		11	2	5	9	27	3	233	113	46	395	422
Thirteen years. ....	100	49	42	133	136	460	175	4,035	2,266	1,449	7,925	8,383

Table 92 presents the percentages of the number injured by the leading causes each year for thirteen years.

TABLE 92—PERCENTAGES OF NON-FATAL ACCIDENTS FOR THIRTEEN YEARS—1901-1913—BY CAUSES

Years	Use of powder					From powder, other named causes and all causes	Other causes				All causes				
	Blast explosions	Blasts, premature	Blown out charge	Powder explosions	Flying coal		Gas explosions	Falling coal, rock, etc.	Pit cars	Various	Powder	Gas explosions	Falling coal, rock, etc.	Pit cars	Various
1901.....	.....	40.7	7.4	18.5	33.4	100.0	0.8	59.0	28.7	11.5	6.4	0.8	53.1	26.8	10.9
1902.....	53.6	3.6	3.6	21.4	17.8	100.0	0.6	52.4	33.0	14.0	6.9	0.5	48.8	30.7	13.1
1903.....	27.7	6.3	25.5	14.9	25.5	100.0	1.4	45.2	35.3	18.1	11.5	1.2	40.0	31.2	16.1
1904.....	11.1	9.3	3.7	53.7	22.2	100.0	1.3	58.3	27.2	13.2	10.6	1.2	25.1	24.3	11.8
1905.....	26.0	6.0	12.0	30.0	26.0	100.0	6.2	55.5	26.6	11.7	9.3	0.6	50.3	24.2	15.7
1906.....	21.9	3.1	18.8	28.1	28.1	100.0	1.3	56.5	24.6	17.6	6.7	1.2	52.7	22.4	17.0
1907.....	16.0	8.0	14.0	32.0	30.0	100.0	1.5	55.8	29.2	13.5	7.9	1.4	51.4	26.9	12.4
1908.....	22.2	8.3	.....	30.6	38.9	100.0	4.5	51.4	26.7	17.4	4.4	4.3	49.1	25.5	16.7
1909.....	36.8	7.9	.....	29.0	26.3	100.0	2.9	49.4	29.1	18.6	4.2	2.8	47.3	27.9	17.8
1910.....	7.1	35.7	3.6	25.0	28.6	100.0	2.0	51.7	26.3	20.0	3.8	1.9	49.7	25.3	19.3
1911.....	5.2	15.8	15.8	31.6	31.6	100.0	1.6	47.4	30.6	20.4	2.7	1.5	46.1	29.8	19.9
1912.....	9.5	9.5	9.5	23.8	47.7	100.0	2.9	46.7	27.0	23.4	2.6	2.9	45.5	26.3	22.7
1913.....	36.7	.....	.....	20.0	43.3	100.0	3.3	44.4	30.2	22.1	2.9	3.2	43.1	29.3	21.5
Thirteen years.....	21.7	10.7	9.1	28.9	29.6	100.0	2.2	50.9	28.6	18.3	5.5	2.1	48.1	27.0	17.3

Table 93 gives the range of ages and the average age of the men injured in each occupation.

TABLE 93—RANGE OF AGES, AVERAGE AGE AND TOTAL NUMBER INJURED, BY OCCUPATIONS

Occupations	Number injured	Range of ages—years									Average age	
		Under 20	20 but under 25	25 but under 30	30 but under 35	35 but under 40	40 but under 45	45 but under 50	50 but under 55	55 but under 60		60 and over
Blacksmiths <sup>1</sup> .....	7			1	2				1	1	1	32.5
Cagers <sup>2</sup> .....	30	2	4	9	4	4	1	6				32.5
Carpenters.....	3			1			1		1			39.3
Cartrimmers.....	1						1					40.0
Couplers <sup>3</sup> .....	6	1	2	1	1						1	34.5
Drivers <sup>4</sup> .....	202	21	86	51	21	9	6	2	1			25.5
Electricians.....	2							2				46.0
Fireman.....	1							1				46.0
Foreman.....	1			1								26.0
Laborer <sup>5</sup> .....	79	4	18	14	13	11	4	3	7	1	4	33.5
Loaders <sup>6</sup> .....	54		5	5	10	7	7	8	5	2	3	39.4
Machine helpers <sup>7</sup> .....	31	2	5	5	11	3	3	2				30.9
Machine runners.....	45		2	10	12	10	5	2	4			34.7
Mechanics.....	4				1	1		1		1		42.5
Mine examiners.....	2						1		1			47.0
Mine manager's assts.....	2				1		1					37.0
Miners <sup>8</sup> .....	438	16	40	59	64	67	71	49	37	23	11	37.6

TABLE 93—*Concluded*

Occupations	Number injured	Range of ages—years										Average age
		Under 20	20 but under 25	25 but under 30	30 but under 35	35 but under 40	40 but under 45	45 but under 50	50 but under 55	55 but under 60	60 and over	
Motormen.....	8	.....	3	2	2	1	.....	.....	.....	.....	.....	27.8
Pumpman.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	33.0
Shot firers.....	10	.....	.....	2	4	3	1	.....	.....	.....	.....	33.3
Spraggers <sup>9</sup> .....	9	3	4	1	1	.....	.....	.....	.....	.....	.....	22.0
Superintendent.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	42.0
Timbermen.....	30	.....	3	2	1	6	5	4	4	3	2	41.9
Trackman <sup>10</sup> .....	22	2	1	2	1	6	2	4	2	1	1	39.0
Trappers <sup>11</sup> .....	12	10	1	.....	.....	1	.....	.....	.....	.....	.....	18.9
Tripriders <sup>12</sup> .....	23	3	12	6	1	.....	1	.....	.....	.....	.....	23.7
Weighman.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	45.0
Total.....	1,025	64	186	172	151	129	111	85	63	32	23	34.0

\* One, age not reported.

† Five, ages not reported.

‡ Two, ages not reported.

|| One, age not reported.

<sup>1</sup> One, 72.<sup>2</sup> One, 18; one, 19.<sup>3</sup> One, 17; one, 64.<sup>4</sup> One, 16; three, 17; nine, 18; eight, 19.<sup>5</sup> Four, 18; one, 62; one, 64; one, 74.<sup>6</sup> One, 61; one, 72.<sup>7</sup> One, 18; one, 19.<sup>8</sup> One, 16; six 17; eight, 18; one, 19; two, 61; two,

62; one, 64; four, 65; one, 66

<sup>9</sup> One 17; one, 18; one, 19.<sup>10</sup> One, 17; one, 19.<sup>11</sup> Four, 16; four, 17; two, 18.<sup>12</sup> Three, 19.

Table 94 shows the number of non-fatal accidents due to falling roof and sides and from all other causes, with percentages, for thirty-one years.

TABLE 94—NON-FATAL ACCIDENTS FROM FALLING ROOF AND SIDES, AND OTHER CAUSES, WITH PERCENTAGES CAUSED BY FALLING ROOF—THIRTY-ONE YEARS

Years	Non-fatal accidents			Percentages—	
	Total	Falling roof and sides	All other causes	Caused by falling roof or sides	All other causes
1883.....	231	130	101	56.28	43.72
1884.....	197	135	62	68.53	31.47
1885.....	176	118	58	67.00	33.00
1886.....	171	109	62	63.74	36.36
1887.....	180	124	56	68.88	31.12
1888.....	179	112	67	62.58	37.42
1889.....	201	129	72	64.17	35.83
1890.....	294	196	98	66.66	33.34
1891.....	367	227	140	61.85	38.15
1892.....	370	234	136	63.25	36.70
1893.....	403	254	149	63.03	36.97
1894.....	521	294	227	56.43	43.57
1895.....	605	338	267	55.87	44.13
1896.....	672	373	299	55.51	44.49
1897.....	518	310	208	59.85	40.15
1898.....	438	252	186	60.87	39.13
1899.....	597	335	262	56.12	43.88



TABLE 94—*Concluded*

Years	Non-fatal accidents			Percentages—	
	Total	Falling roof and sides	All other causes	Caused by falling roof or sides	All other causes
1900.....	611	323	288	52.86	47.94
1901.....	422	233	189	55.21	44.79
1902.....	406	198	208	48.77	51.23
1903.....	410	190	220	46.34	53.66
1904.....	507	264	243	52.07	47.93
1905.....	535	271	264	50.66	49.34
1906.....	480	253	227	52.71	47.29
1907.....	636	327	309	51.42	48.58
1908.....	819	402	417	49.08	50.92
1909.....	894	423	471	47.30	52.70
1910.....	742	369	373	49.7	50.3
1911.....	709	327	382	46.1	53.9
1912.....	800	364	436	45.5	54.5
1913.....	1,025	442	583	48.1	51.9
Total—31 years.....	15,116	8,056	7,060	53.3	46.7

Table 95 gives the number killed and injured by falling roof and sides for thirty-one years.

TABLE 95—TOTAL NUMBER KILLED AND INJURED, WITH PERCENTAGES OF ALL ACCIDENTS CAUSED BY FALLING ROOF OR SIDES FOR THIRTY-ONE YEARS

Years	Number from all causes			Per cent by falling roof and sides		
	Killed	Injured	Total	Killed	Injured	Total
1883.....	134	231	365	30.0	56.28	47.7
1884.....	46	197	243	56.5	68.53	66.25
1885.....	39	176	215	51.3	67.0	64.18
1886.....	52	171	223	61.5	63.74	63.23
1887.....	41	180	221	68.3	68.88	68.77
1888.....	55	179	234	60.0	62.58	61.97
1889.....	42	201	243	61.9	64.17	63.78
1890.....	53	294	347	67.9	66.66	66.86
1891.....	60	367	427	55.0	61.85	60.88
1892.....	57	370	427	49.1	63.25	61.36
1893.....	69	403	472	69.6	63.03	63.98
1894.....	72	521	593	58.3	56.43	56.82
1895.....	75	605	680	50.7	55.87	55.59
1896.....	77	672	749	53.3	55.51	55.27
1897.....	69	518	587	66.7	59.85	60.65
1898.....	75	438	513	57.33	60.87	60.34
1899.....	84	597	681	60.71	56.12	56.68
1900.....	94	611	705	54.3	52.86	52.1
1901.....	99	422	521	56.43	55.21	55.45
1902.....	99	406	505	55.55	48.77	50.1
1903.....	156	410	566	50.64	46.24	47.53
1904.....	157	507	664	49.68	52.07	51.51
1905.....	199	535	734	40.20	50.64	47.82
1906.....	155	480	635	54.2	52.7	53.07
1907.....	165	636	801	50.91	51.42	51.31
1908.....	183	819	1,002	49.7	49.08	49.6
1909.....	213	894	1,107	39.4	47.3	45.8
1910.....	406	742	1,148	16.01	49.73	37.8
1911.....	157	709	866	51.0	46.1	47.0
1912.....	180	800	980	54.4	45.5	47.1
1913.....	175	1,025	1,200	48.8	44.4	43.6
Total—31 years.....	3,538	15,116	18,654	47.1	53.3	52.1

Table 96 shows the per cent of increase or decrease in the number of men employed, tons produced and accidents, from year to year, for thirty-one years.

TABLE 96—PERCENTAGES OF INCREASE AND DECREASE FROM YEAR TO YEAR OF MEN EMPLOYED, TONS PRODUCED, MEN KILLED AND MEN INJURED FOR A SERIES OF THIRTY-ONE YEARS

Year	Men employed		Tons produced		Killed		Injured	
	Increase	Decrease	Increase	Decrease	Increase	Decrease	Increase	Decrease
1883 to 1884.....	6.83	.....	0.7	.....	.....	65.67	.....	14.7
1885.....	1.45	.....	.....	3.06	.....	15.22	.....	10.66
1886.....	.....	0.38	.....	5.57	33.33	.....	.....	2.84
1887.....	3.71	.....	11.17	.....	.....	21.15	5.26	.....
1888.....	9.72	.....	15.34	.....	26.83	.....	.....	0.56
1849.....	2.26	.....	.....	2.17	.....	23.64	12.29	.....
1890.....	.....	5.00	8.97	.....	26.19	.....	46.27	.....
1891.....	15.31	.....	3.53	.....	13.2	.....	24.83	.....
1892.....	2.07	.....	14.06	.....	.....	5.00	0.82	.....
1893.....	5.23	.....	11.69	.....	21.05	.....	8.92	.....
1894.....	8.72	.....	.....	14.22	4.35	.....	29.28	.....
1895.....	0.40	.....	3.64	.....	4.17	.....	16.12	.....
1896.....	.....	4.7	11.56	.....	2.67	.....	11.7	.....
1897.....	.....	8.82	1.45	.....	.....	10.39	.....	22.92
1898.....	3.66	.....	.....	7.34	8.7	.....	.....	15.44
1899.....	5.61	.....	26.00	.....	12.00	.....	36.30	.....
1900.....	6.47	.....	7.34	.....	11.90	.....	2.35	.....
1901.....	12.08	.....	5.89	.....	5.32	.....	.....	30.93
1902.....	4.21	.....	12.71	.....	.....	.....	.....	3.8
1903.....	8.28	.....	16.44	.....	57.58	.....	0.99	.....
1904.....	9.96	.....	6.07	.....	0.64	.....	23.66	.....
1905.....	8.14	.....	0.28	.....	26.75	.....	5.52	.....
1906.....	5.15	.....	3.05	.....	.....	22.11	.....	10.28
1907.....	7.11	.....	24.74	.....	6.45	.....	32.50	.....
1908.....	6.19	.....	3.08	.....	10.91	.....	28.77	.....
1909.....	2.67	.....	.....	0.22	16.39	.....	9.16	.....
1910.....	2.61	.....	.....	0.91	90.61	.....	.....	17.0
1911.....	3.72	.....	2.97	.....	.....	61.33	.....	4.45
1912.....	2.58	.....	14.6	.....	14.6	.....	12.8	.....
1913.....	0.18	.....	7.53	.....	.....	2.78	28.12	.....

### COAL PRODUCTION OF ILLINOIS

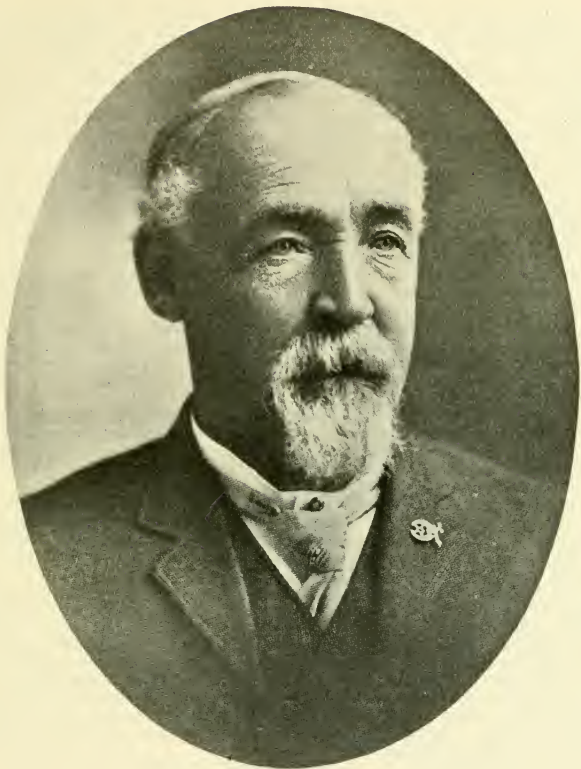
Table 97 gives the production of the coal mines of the State, in tons, each year from 1833 to 1881, the total output reported to the Bureau of Labor Statistics, 1882 to 1910, inclusive, and the total production, 1911, 1912 and 1913, reported to the State Mining Board.

TABLE 97—COAL PRODUCTION OF ILLINOIS—1833-1913

Year	Quantity in tons	Year	Quantity in tons
1833.....	6,000	1844.....	120,000
1834.....	7,500	1845.....	165,000
1835.....	8,000	1846.....	165,000
1836.....	10,000	1847.....	180,000
1837.....	12,500	1848.....	200,000
1838.....	14,000	1849.....	260,000
1839.....	15,038	1850.....	300,000
1840.....	61,967	1851.....	320,000
1841.....	35,000	1852.....	340,000
1842.....	58,000	1853.....	375,000
1843.....	75,000	1854.....	385,000

TABLE 97—*Concluded*

Year	Quantity in tons	Year	Quantity in tons
1855.....	400,000	1872.....	3,360,000
1856.....	410,000	1873.....	3,920,000
1857.....	450,000	1874.....	4,203,000
1858.....	490,000	1875.....	4,453,178
1859.....	530,000	1876.....	5,000,000
1860.....	728,000	1877.....	5,350,000
1861.....	670,000	1878.....	5,700,000
1862.....	780,000	1879.....	5,000,000
1863.....	890,000	1880.....	6,115,377
1864.....	1,000,000	1881.....	6,720,000
1865.....	1,260,000	Total 49 years.....	73,123,123
1866.....	1,580,000	Reported to Bureau of Labor 1882- 1910.....	708,914,114
1867.....	1,800,000	Reported to State Mining Board...	169,525,543
1868.....	2,000,000	Total output of the State.....	951,562,780
1869.....	1,854,000		
1870.....	2,624,163		
1871.....	3,000,000		



F. Newman

Richard Newsam was born in Chorley, Lancashire, England, November 11, 1843, died at his home, 208 Bigelow Street, Peoria, Ill., August 4, 1913. He was put to work in the coal mines of his native country at the age of eight years, beginning with the belt and chain and tallow candle, attaining promotion until he had served in every position connected with the duties of mining. Denied the privilege of attending school, his whole life was devoted to acquiring practical knowledge through experience and hard knocks, and he has been long regarded as an authority, with an international reputation, on all subjects relating to the industry of coal mining.

Mr. Newsam was married to Miss Frances Walstenholm, May 20, 1866, at Hindley, Lancashire, England, and three years later emigrated to America, settling at Peoria, Ill. He at once engaged in coal mining, assuming charge of the Lowry mine as superintendent. Five years later, he, with his brother, leased the mine and soon acquired interests in sixteen other mining properties, thereby becoming the largest coal operator in that section.

In 1897, Governor Tanner, recognizing his great ability and sterling worth, appointed him a member of the State Mining Board, which he held, as president of the board, till the fall of 1912, when, owing to declining health, he was compelled to resign this position and also that of manager of the Mine Rescue Stations. It was largely on account of his recommendation, made immediately after the Cherry mine disaster, where he had served as leader in the work of rescuing the entombed miners, that the Mine Rescue Stations were established.

Through his indefatigable efforts, spending his energy, his time and his money, the mining industry has been brought to a higher plane, lives have been saved, accidents avoided, and the world made better by his having lived in it. Truly it has been said of him, "He was the friend of everybody and everybody was his friend."

Mr. Newsam is survived by his widow, three sons, three daughters, two brothers and one sister. The interment took place Friday, August 8, in the family lot at Kingston Mines, under the auspices of the Masonic Fraternity.

The following resolutions were adopted by the members of the State Mining Board and State Inspectors of Mines:

"WHEREAS, It has pleased an Allwise Creator to remove from our midst Richard Newsam, who for a number of years was the president of the State Mining Board; and,

"WHEREAS, By his ability and honesty, the standard and efficiency of the State Mining Board and State Mine Inspection Service has been raised until we are second to no similar board in the United State of America; and,

"WHEREAS, The deceased, by his wide knowledge of mining matters, practical and theoretical, and his aptness and ability in imparting such knowledge to all who were seeking the same, was a valued and competent presiding officer of the State Mining Board; therefore,

"Resolved, That we pay a just and fitting tribute to his ability and memory when we mourn for him as one in every way worthy of our respect and esteem.

"Resolved, That we sincerely condole with the widow and family of the deceased, and commend them to the keeping of Him who looks with tenderness on the widow and fatherless.

"Resolved, That these resolutions be spread on the records of the State Mining Board, and that copies of the same be forwarded to the widow of our friend, to the newspapers and mining journals of the State, and that the same be made a part of the Thirty-second Annual Coal Report."

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**ANNUAL REPORTS**

**of the**

**State Inspectors  
of Mines**

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## FIRST INSPECTION DISTRICT—1913

COUNTIES—GRUNDY, LASALLE, LIVINGSTON, WILL.    HECTOR McALLISTER,  
*Inspector, STREATOR*

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Grundy, LaSalle, Livingston, and Will.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	4
Number of shipping mines.....	21
Number of local mines.....	30
Number of new or re-opened mines.....	2
Number of closed or abandoned mines.....	11
Number of miners.....	3,448
Others underground, men.....	875
Boys underground.....	76
Boys above ground.....	5
Others above ground.....	453
Total number of employees.....	4,857
Total tons of coal produced.....	2,250,206
Days of active operation, all mines.....	207
Kegs of powder used for blasting coal.....	22,387
Tons of coal shipped.....	1,609,594
Tons supplied to locomotives.....	79,597
Tons sold to local trade.....	230,715
Tons consumed and wasted at mines.....	330,300
Number of fatal accidents.....	3
Number of non-fatal accidents.....	80
Number of employees to each fatal accident.....	1,619
Number of employees to each non-fatal accident.....	61
Tons of coal produced to each fatal accident.....	750,069
Tons of coal produced to each non-fatal accident.....	28,128
Ratio of fatal accidents per 1,000 employees.....	0.6

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Grundy.....	756,388	427,515		328,873
LaSalle.....	1,605,482	1,602,966		2,516
Livingston.....	71,685	66,424		5,261
Will.....	179,001	153,301		25,700
<b>Total.....</b>	<b>2,612,556</b>	<b>2,250,206</b>		<b>362,350</b>
<b>Net.....</b>				<b>362,350</b>

## NEW MINES

Herrick Clay and Manufacturing Company has opened a mine three miles west of Ottawa on the C., R. I. & P. Railway.

The Chicago Retort Fire Brick Company has opened a mine near Ottawa, LaSalle County.

## ABANDONED MINES

Eleven mines have been abandoned, or not operated, during the year, as follows:

Big Four Wilmington Coal Company's No. 5 mine, at Carbon Hill, Grundy County.

*LaSalle County.*—LaSalle County Carbon Coal Company's Rockwell mine; Spicer Coal Co., at Marseilles; William Lawton, Streator; George Steele, Ottawa; Ben Davis and Son, Streator; James McCullough, Ottawa; R. H. Burgen, Streator.

*Livingston County.*—Cardiff Coal Co., Cardiff; Streator Aqueduct Co., Streator; Brady Coal Co., Pontiac.

Some of these mines will resume operations in the near future.

## CHANGE OF OWNERSHIP

Ralph Lee has purchased the mine formerly operated by William Hodson, Morris, Grundy County.

Murphy, Linskey and Kasher Coal Company, of Braidwood, has purchased the Brady Coal Company's mine at Pontiac. This mine, however, was not in operation this year.

W. Howell now operates the mine formerly operated by Hurst and Howell, Ottawa, LaSalle County.

Ed. Turk operates the mine known as the W. J. McMillen mine, Streator.

The Wilfred Coal Co., Seneca, will hereafter be known as the G. and J. Coal Co.

## MINE FIRES

The engine and boiler house of the Fairbury Miners' Co-operative Coal Company of Fairbury, Livingston County, was destroyed by fire on the night of September 11, 1912. It was rebuilt and made fire-proof and operation resumed November 4, 1912.

## IMPROVEMENTS

The Chicago, Wilmington & Vermilion Coal Company has installed a new Jeffrey fan 4x12, double inlet, at No. 1 mine, South Wilmington, Grundy County.

The LaSalle County Carbon Coal Company has put in stairs at the Rockwell mine and is operating the fan by electricity.

The M. & H. Zinc Company of LaSalle has installed electric lights in the escapement shaft of its mine.

The Oglesby Coal Company has installed electric lights in the escapement shaft of its mine at Oglesby, LaSalle County.

## FATAL ACCIDENTS

September 18, 1912, John P. Keating, miner, aged 62 years, married, was killed instantly by fall of rock at the face of his working place in the C., W. & V. Coal Company's No. 3 mine, Streator, LaSalle County. Deceased was drilling a hole when a mass of rock fell, with the result as stated. He leaves a widow and seven children.

October 2, 1912, Herman Georgel, miner, aged 20 years, single, was killed instantly at the face of his working place by fall of rock in the LaSalle County Carbon Coal Company's LaSalle mine, LaSalle, LaSalle County.

June 2, 1913, Robert Roy Morrison, motorman, aged 23 years, married, was killed instantly in the Oglesby Coal Company's mine, Oglesby, LaSalle County. Deceased was coming out with loaded trip; the motor was derailed and turned over, pinning him underneath, with the result as stated. He leaves a widow and one child.

Respectfully submitted,  
HECTOR McALLISTER  
State Inspector of Mines, First District, Streator

## FATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Sept. 18	John P. Keating .....	62	Miner .....	Streator .....	1	1	7	1		Falling rock .....
Oct. 2	Herman Georgel .....	20	do .....	LaSalle .....	1	1				do .....
1913										
June 2	R. R. Morrison .....	23	Motorman .....	Oglesby .....	1	1	1	1		Motor .....
	Total .....				2	1	2	7	2	

## RECAPITULATION OF FATAL CASUALTIES, FIRST DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Oglesby .....	1	Miner .....	2	Falling rock .....	2	C. W. & V. ....	1
LaSalle .....	1	Motorman .....	1	Motor .....	1	LaSalle Co. ....	1
Streator .....	1					Oglesby .....	1
Total .....	3		3		3		3

## NON-FATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July 1	Joe Moenik .....	30	LaSalle .....	1	1			Thumb cut off, flying coal .....	61
6	Joe Sarti .....	31	So. Wilmington .....	1	3	4		Back injured, pit car .....	65
12	Andrew Sabbo .....	54	Streator .....	1	6			Ribs broken, flying coal .....	85
19	Henry Downs .....	66	Crocketville .....	1	4			Eyes destroyed, flying sulphur .....	*
20	Joe Fasett .....	18	So. Wilmington .....	1				Leg broken, falling coal .....	105
25	Anton Klockucmsky .....	27	Oglesby .....	1	3	4		Arm broken, pit car .....	91
31	Felix Garda .....	36	So. Wilmington .....	1	3	4		Eye injured, flying coal .....	75
Aug. 1	Julius Vicoesi .....	23	do .....	1				Leg injured, pit car .....	105
5	Dave Rowatt .....	31	Streator .....	1				Finger injured, pit car .....	37
5	Peter Gerine .....	27	Cedar Point .....	1				Leg injured, axe .....	59
9	Frank Panleka .....	29	Oglesby .....	1				Jaw broken, falling rock .....	44
26	Ed Pearson .....	54	Cedar Point .....	1	2	1		Leg broken, falling timber .....	96
26	Chas. Pouch .....	25	Oglesby .....	1				Finger broken, pit car .....	36
24	Ed. Delarber .....	47	Deer Park .....	1	2	3		Eye destroyed, flying coal .....	84
Sept. 2	H. Figureau .....	40	LaSalle .....	1	4	5		Foot injured, falling rock .....	32
4	Venarci Pelegrini .....	37	So. Wilmington .....	1	5	6		Leg injured, falling rock .....	35
4	R. Elioro .....	20	Cedar Point .....	1				Head injured, falling rock .....	33
10	James Blecha .....	35	Torino .....	1	4	5		Back injured, falling coal .....	161
14	Anton Litchama .....	23	Oglesby .....	1				Leg broken, falling rock .....	92

NON-FATAL CASUALTIES, FIRST DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Sept. 17	Harman Karuse	40	Coal City	1		3	4	Body injured, pit car	90
Oct. 8	Peter Miller	55	LaSalle	1	1			Finger broken, pit car	50
12	Bat Alaria	49	So. Wilmington	1		3	1	Eye injured, flying clay	116
14	John Rollok	23	Peru	1				Eye injured, flying sulphur	45
16	John Wargaski	48	Streator	1				Body injured, falling rock	234
22	Constanta Surlimino	23	Oglesby	1	1			Ankle injured, falling rock	36
24	John Copie	40	So. Wilmington	1		4	5	Hand injured, falling rock	35
25	Lon Buschi	36	do.	1		6	6	Leg injured, falling coal	70
28	R. Domzolski	28	LaSalle	1		2	3	Back injured, lifting pit car	69
30	Albert Johnson	65	Torino	1	1			Leg broken, pit car	182
Nov. 12	J. Gorgal	35	Peru	1		4	4	Ankle injured, falling rock	126
14	Wm. Bertino	17	Godley	1	1			Leg injured, pit car	49
16	Preckop Uhlik	50	Coal City	1				Ankle injured, falling coal	54
21	Chas. Trvorz	32	So. Wilmington	1		2	3	Eye injured, linchpin	42
21	Anton Besmiski	47	LaSalle	1		4	5	Eye injured, flying sulphur	45
27	John Bickerton	42	Streator	1	1			Foot injured, pit car	40
27	Vincent Powell	21	Jonesville	1		1	2	Leg broken, falling coal	*
30	Thos. Gratti	40	So. Wilmington	1	1		2	Body injured, lifting weight	98
Dec. 23	Frank Gensita	41	LaSalle	1				Back injured, falling rock	43
23	Joe Faleletti	21	do.	1	1			Finger broken, falling coal	30
28	Umberto Maxcacci	31	Marseilles	1		6	7	Arm injured, falling coal	39
1913									
Jan. 2	Thos. Novatney	20	Streator	1	1			Leg broken, pit car	109
	Peter Coletti	39	So. Wilmington	1		3	4	Hand broken, falling rock	105
	Chas. Morrison	61	Oglesby	1		2	1	Eye injured, falling coal	98
	G. Geneia	25	do.	1			1	Finger broken, falling coal	32
	August Sholkus	27	Cedar Point	1	1			Head injured, kicked by mule	30
	Joe Giardala	23	Oglesby	1	1			Finger broken, falling rock	32
	Sam Geratch	36	LaSalle	1		5	6	Leg broken, falling rock	85
	Joe Gata	45	do.	1		4	5	Back injured, falling coal	33
	Frank Smith	34	Marseilles	1		3	4	Back injured, falling rock	63
	Joe Schregli	43	LaSalle	1		2	3	Finger injured, falling coal	49
	Wm. Cole	33	do.	1		2	3	Wrist injured, pit car	54
	Perry Brooks	55	So. Wilmington	1		10	4	Leg injured, falling rock	190
Feb. 13	Walter Pelton	29	do.	1		3	4	Toes broken, cage	100
	John Kolasoski	40	Peru	1				Body injured, fell off car	30
Mar. 5	F. Kavlarder	37	LaSalle	1	1			Leg broken, falling coal	*
	Auselin Sergenty	42	do.	1		3	4	Leg injured, falling rock	40
	Joe Fisher	40	Deer Park	1		2	3	Body injured, kicked by mule	31
	Thos. Oswald	37	So. Wilmington	1		3	4	Leg broken, falling rock	120
	Andy Sember, Sr.	54	Streator	1		6	6	Back injured, falling rock	90
	Joe Sofronski	25	LaSalle	1	1			Hand injured, pit car	86
	A. Seratina	30	do.	1		2	3	Body injured, lifting coal	37
	M. Kmeriak	50	do.	1		3	4	Eye injured, flying sulphur	*
	J. Pagliers	47	do.	1		4	4	Arm broken, falling rock	*
Apr. 4	Anton Barrett	38	Torino	1			1	Eye injured, falling rock	56
	John Roxaso	25	Cedar Point	1	1			Arm broken, falling rock	54
	Mike Kudrick	27	Streator	1		2	1	Toe broken, falling rock	39
	Clyde Herlin	23	Crocketville	1	1			Leg injured, falling coal	36
	Anton Gervetta	32	Cedar Point	1	1			Head injured, falling rock	*
	Joe Gata	45	LaSalle	1		4	5	Finger broken, falling rock	39
	Joe F. Wood	53	Streator	1		3	4	Back injured, falling rock	30
May 12	Ed Fitzgerald	30	Jonesville	1		2	3	Ankle injured, pit car	*
	Hector Cornelis	35	So. Wilmington	1		5	6	Finger broken, falling coal	*
June 31	Alfred Norman	41	Crocketville	1		2	3	Head injured, pit car	*
	Alex Marshall	49	Streator	1		3	4	Shoulder broken, falling coal	*
	John Sabata	45	LaSalle	1		4	5	Back injured, falling rock	*
	August Farber	48	do.	1		3	4	Head injured, falling rock	*
	Lewis Buckofski	40	do.	1		3	4	Arm broken, falling rock	*
	Joe Jarkes	29	do.	1		2	3	Arm broken, falling rock	*
	Martin Sever	33	do.	1		3	4	Leg injured, falling rock	*
	Martin Baker	40	Crocketville	1		3	4	Ankle injured, falling rock	*
	Total			57	23	168	189		

\* Not returned to work.

Total number injured..... 80

Number not returned, July 1..... 16

Number returned to work..... 64

Total days lost by men returned to work.... 4,437

Average days lost..... 69.33

## RECAPITULATION OF NON-FATAL CASUALTIES, FIRST DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Cedar Point.....	6	Cagers.....	2	Axe.....	1	Big Four Wilmington.....	1
Coal City.....	2	Drivers.....	10	Cage.....	1	Cahill.....	2
Crockettsville.....	4	Laborers.....	1	Falling coal.....	15	C., W. & V.....	20
Deer Park.....	2	Miners.....	59	Falling rock.....	31	Harrison.....	3
Godley.....	1	Trackman.....	8	Falling timber.....	1	Ill. Zinc.....	9
Jonesville.....	2			Flying clay.....	1	LaSalle Co.....	29
LaSalle.....	23			Flying coal.....	4	M. & H. Zinc.....	3
Marseilles.....	2			Flying sulphur.....	4	Manufacturers.....	2
Oglesby.....	8			Kicked by mule.....	3	Oglesby.....	5
Peru.....	3			Lifting weight.....	3	Wilmington C. M. & Mfg.....	4
South Wilmington.....	15			Linchpin.....	1	Wilmington Star.....	1
Streator.....	9			Pit cars.....	15	Streator Clay Mfg.....	1
Torino.....	3						
Total.....	80		80		80		80

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS, AND TIME LOST, FIRST DISTRICT, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percentage of injuries
						Total	Average	
Ankles injured.....	5	4	1	9	12	216	72.0	6.25
Arms broken.....	5	4	1	12	15	145	72.5	6.25
Arms injured.....	1	1		6	7	39	39.0	1.25
Backs injured.....	9	8	1	29	36	554	69.3	11.25
Bodies injured.....	6	6		8	12	520	86.7	7.50
Eyes destroyed.....	2	2		6	3	84	84.0	2.50
Eyes injured.....	8	8		17	19	477	68.1	10.00
Feet injured.....	2	1	1	4	5	72	36.0	2.50
Fingers broken.....	7	3	4	9	12	199	33.2	8.75
Fingers cut off.....	1		1			61	61.0	1.25
Fingers injured.....	2	1	1	2	3	86	43.0	2.50
Hands broken.....	1	1		3	4	105	105.0	1.25
Hands injured.....	2	1	1	4	5	121	65.5	2.50
Heads injured.....	5	2	3	5	7	63	31.5	6.25
Jaw broken.....	1		1			44	44.0	1.25
Legs broken.....	9	4	5	11	13	789	112.7	11.25
Legs injured.....	9	6	3	27	24	584	73.0	11.25
Ribs broken.....	1	1		6		85	85.0	1.25
Shoulder broken.....	1	1		3	4			1.25
Toes broken.....	2	2		5	5	139	69.5	2.50
Wrist injured.....	1	1		2	3	54	54.0	1.25
Total.....	80	57	23	168	189	4,437	69.3	100.00

## GRUNDY COUNTY, FIRST DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Keys of powder used for blasting coal	Employees			Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes		Average number of miners	All others employed	Total	By hand	By machine		Killed
SHIPPING MINES																
1	C. W. & V. Coal Co., No. 1	S. Wilmington	150	76,057	52,918	129,125	108,553	20,572	165	234	75	309	129,125		8	
2	C. W. & V. Coal Co., No. 3	do.	288	80,931	42,403	123,622	100,366	23,256	163	222	58	280	123,622		7	
3	Big Four Wilm. C. Co., E. Mine	Coal City	6,982	38,580	25,255	70,817	58,668	12,149	50	128	154	204	70,817		1	
4	Wilmington Star Mining Co. No. 7	do.		27,673	22,997	50,670	45,726	4,944	1,008	151	127	35	50,670		1	
5	Wilmington Star M. Co., No. 6	do.	400	19,075	18,255	37,730	33,856	3,874	934	117	30	141	37,730			
	Total		7,820	242,316	161,828	411,964	347,189	64,775	1,992	848	248	1,096	411,964		17	
LOCAL MINES																
1	James Bell	Morris		2,751	250	3,001		3,001	220	6	1	7	3,001			
2	John Heather	do.		2,470	230	2,700		2,700	225	7	1	8	2,700			
3	Clayton Bros.	do.		2,300	200	2,500		2,500	270	7	1	8	2,500			
4	Wood Coal Co.	do.		2,300	200	2,500		2,500	210	6	1	7	2,500			
5	Byrnes & Fleming	do.		2,100	200	2,300		2,300	230	7	1	8	2,300			
6	William Hodson	do.		1,650	300	1,950		1,950	264	7	1	8	1,950			
7	John Stalker	do.		500	100	600		600	50	8	1	9	600			
	Total			14,071	1,480	15,551		15,551	210	48	7	55	15,551			
	Total—12 mines		7,820	256,387	163,308	427,515	347,189	80,326	1,992	896	255	1,151	427,515		17	

Mines reported for 1912, 13.

Abandoned mines, 1.

Mines in 1913, 12.



LASALLE COUNTY, FIRST DISTRICT, 1913

SHIPPING MINES														
1	LaSalle Co. Carbon C. Co., No. 5.....	43	84, 444	123, 962	208, 449	194, 558	13, 891	219	272	107	379	208, 449	8	
2	Oglesby Coal Co., Oglesby.....	4, 742	148, 281	51, 199	204, 222	185, 893	18, 329	241	286	140	426	204, 222	5	
3	LaSalle Co. Carbon C. Co., No. 1.....	1, 833	67, 739	101, 164	170, 736	156, 957	13, 779	225	245	102	345	170, 736	7	
4	LaSalle Co. Carbon C. Co., LaSalle.....	53, 929	57, 947	41, 869	153, 745	76, 551	77, 194	224	248	115	363	153, 745	1	
5	C. W. & V. Coal Co., No. 2.....	400	50, 915	91, 122	142, 037	118, 176	23, 861	2, 885	215	200	69	269	142, 037	5
6	C. W. & V. Coal Co., No. 3.....	10, 513	86, 857	44, 942	132, 199	125, 721	6, 478	3, 597	274	125	54	179	132, 199	179
7	LaSalle Co. Carbon C. Co., Union.....	LaSalle.....	31, 134	38, 514	79, 891	45, 284	34, 607	185	142	53	195	79, 891	2	
8	Harrison Coal Co., Streator.....	do.....	38, 514	38, 514	77, 028	68, 878	8, 150	2, 200	237	128	60	77, 028	188	
9	Acme Coal Co., Acme.....	do.....	34, 633	31, 206	65, 839	37, 855	27, 984	185	75	38	113	65, 839	3	
10	Illinois Zinc Co., Deer Park.....	60, 058	do.....	do.....	60, 058	57, 023	3, 035	2, 150	293	89	60	57, 023	9	
11	Caill Coal Co., No. 1.....	22, 840	14, 760	5, 220	42, 820	20, 760	22, 060	241	74	75	149	42, 820	2	
12	Rutland Coal Co., Rutland.....	1, 053	19, 613	13, 882	34, 548	27, 434	7, 114	180	70	30	100	34, 548	2	
13	G. & J. Coal Co., No. 1.....	do.....	10, 570	803	11, 373	9, 231	2, 142	286	29	11	40	11, 373	.....	
Total.....		155, 411	645, 407	582, 127	1, 382, 945	1, 124, 321	258, 624	10, 832	231	1, 981	2, 895	1, 382, 945	2	
LOCAL MINES														
1	Mathiassen-Hegeler Zinc Co.....	158, 940	.....	.....	158, 940	.....	158, 940	6, 862	291	94	39	.....	3	
2	Manufacturers Coal Co.....	25, 938	.....	.....	25, 938	.....	25, 938	7, 486	215	64	19	.....	2	
3	Stohs Coal Co.....	1, 872	2, 807	2, 807	7, 486	.....	5, 591	251	15	5	20	.....	.....	
4	Chicago Refort Fire Brick Co.....	5, 591	.....	.....	5, 591	.....	5, 591	100	.....	11	11	5, 591	.....	
5	Munts Coal Co.....	.....	3, 172	1, 586	4, 758	.....	4, 758	235	200	20	5	4, 758	.....	
6	Francis Coal Co.....	3, 520	.....	.....	3, 520	.....	3, 520	103	200	8	2	3, 520	.....	
7	Mitchell Bros.....	2, 000	550	320	2, 870	.....	2, 870	35	302	3	1	2, 870	.....	
8	D. W. Hill.....	408	1, 200	200	1, 808	.....	1, 808	25	205	3	2	1, 808	.....	
9	Fred Scott.....	1, 000	500	300	1, 800	.....	1, 800	100	200	5	5	1, 800	.....	
10	Oscar Kimes.....	1, 695	.....	.....	1, 695	.....	1, 695	200	4	1	5	1, 695	.....	
11	Brooker Bros.....	.....	1, 480	70	1, 550	.....	1, 550	50	250	4	6	1, 550	.....	
12	L. W. Brower.....	.....	1, 325	.....	1, 325	.....	1, 325	250	2	2	2	1, 325	.....	
13	Charley Hendee.....	607	.....	60	667	.....	667	7	192	2	2	667	.....	
14	LaKaros & Uhrin.....	650	.....	.....	650	.....	650	11	100	2	2	650	.....	
15	Wm. Bottomley.....	500	.....	8	508	.....	508	4	134	3	3	508	.....	
16	Massey Bros.....	.....	300	150	450	.....	450	140	3	4	4	450	.....	
17	W. Howell.....	265	.....	.....	265	.....	265	150	2	2	2	265	.....	
18	John McClenon.....	200	.....	.....	200	.....	200	150	3	.....	3	200	.....	
Total.....		203, 186	11, 334	5, 501	220, 021	.....	220, 021	7, 432	196	237	88	61, 081	5	
Total—31 mines.....		358, 597	656, 741	587, 628	1, 602, 966	1, 124, 321	478, 645	18, 264	211	2, 218	1, 002	444, 026	58	

Mines reported for 1912, 36.  
New mines, 2.  
A abandoned mines, 7  
Mines in 1913, 31.



## LIVINGSTON COUNTY, FIRST DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Days of active operation	Employees			Tons mined		Acci- dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur- poses		Average num- ber of min- ers	All others em- ployed	Total	By hand	By machine		Killed
SHIPPING MINES																
1	Fairbury Coal Co., W. Mine.....	Fairbury.....	21,605	2,814	4,456	28,875	5,399	23,476	990	299	20	43	63	28,875	.....	.....
LOCAL MINES																
1	Streator Clay Mfg. Co.....	Streator.....	5,000	15,000	1,021	21,021	.....	21,021	260	288	14	12	26	.....	21,021	.....
2	Fairbury Co-operative Coal Co.....	Fairbury.....	2,860	4,186	6,907	13,953	.....	13,953	871	230	13	10	23	13,953	.....	1
3	Ed. E. Evans.....	Streator.....	1,200	400	.....	1,600	.....	1,600	150	8	1	9	6	1,600	.....	.....
4	E. D. Turk.....	do.....	1,463	358	154	1,975	.....	975	275	5	1	6	6	975	.....	.....
	Total.....	.....	9,523	19,944	8,082	37,549	.....	37,549	1,131	236	40	24	64	16,528	21,021	1
	Total—5 mines.....	.....	31,128	22,758	12,538	66,424	5,399	61,025	2,121	248	60	67	127	45,403	21,021	1

Mines reported for 1912, 8.

A abandoned mines, 3.

Mines in 1913, 5.

## WILL COUNTY, FIRST DISTRICT, 1913

<b>SHIPPING MINES</b>															
1	Wilmington C. M. & M. Co., No. 6.....	Torino.....	81,659	.....	.....	81,659	72,445	9,214	.....	194	150	50	200	81,659	.....
2	Murphy, Linskey & Kasher Coal Co., No. 4.....	Braidwood.....	11,354	34,062	21,666	67,082	60,240	6,842	10	194	110	31	141	67,082	.....
	Total.....	.....	93,013	34,062	21,666	148,741	132,685	16,056	10	194	260	81	341	148,741	.....
<b>LOCAL MINES</b>															
1	Oswald & Young.....	Braidwood.....	4,560	.....	.....	4,560	.....	4,560	.....	198	14	4	18	4,560	.....
	Total—3 mines.....	.....	97,573	34,062	21,666	153,301	132,685	20,616	10	195	274	85	359	153,301	.....

Mines reported in 1912, 3.

Mines in 1913, 3.

## RECAPITULATION BY COUNTIES, FIRST DISTRICT, 1913

	Grundy	LaSalle	Livingston	Will	Total
<b>SHIPPING MINES</b>					
Number of mines.....	5	13	1	2	21
Production of different grades in tons—					
Mine run.....	7,820	155,411	21,605	93,013	277,849
Lump.....	242,316	645,407	2,814	34,062	924,599
Egg.....	28,352	253,842	.....	.....	282,194
Nut.....	.....	18,735	1,919	4,876	25,530
Pea.....	126,176	236,555	1,514	15,290	379,535
Slack.....	7,300	72,995	1,023	1,500	82,818
Total.....	411,964	1,382,945	28,875	148,741	1,972,525
Disposition of output in tons—					
Loaded on cars for shipment.....	347,189	1,124,321	5,399	132,685	1,609,594
Other purposes.....	64,775	258,624	23,476	16,056	362,931
Kegs of powder used blasting coal.....	1,992	10,832	990	10	13,824
Days of active operation.....	145	231	299	194	210
Employees under ground—					
Miners.....	848	1,951	20	260	3,109
Others.....	167	575	37	49	828
Boys.....	14	50	.....	7	71
Employees above ground.....	67	289	6	25	387
Total.....	1,096	2,895	63	341	4,395
Tons mined by hand.....	411,964	1,382,945	28,875	148,741	1,972,525
Tons mined by machine.....	.....	.....	.....	.....	.....
Number of machines in use.....	.....	1	.....	.....	1
Number of motors in use.....	.....	2	.....	.....	3
Number killed.....	1	.....	.....	.....	.....
Number injured.....	17	53	.....	4	74
Blasting coal—					
from solid—tons.....	.....	1,382,945	28,875	148,741	1,560,561
Undercut—tons.....	323,564	.....	.....	.....	323,564
Both methods—tons.....	88,400	.....	.....	.....	88,400
<b>LOCAL MINES</b>					
Number of mines.....	7	18	4	1	30
Production of different grades in tons—					
Mine run.....	.....	203,186	9,523	4,560	217,269
Lump.....	14,071	11,334	19,944	.....	45,349
Other grades.....	1,480	5,501	8,082	.....	15,063
Total.....	15,551	220,021	37,549	4,560	277,681
Kegs of powder used blasting coal.....	.....	7,432	1,131	.....	8,563
Days of active operation.....	210	196	236	198	205
Number of employees.....	55	325	64	18	462
Tons mined by hand.....	15,551	61,081	16,528	4,560	97,720
Tons mined by machine.....	.....	158,940	21,021	.....	179,961
Number killed.....	.....	.....	.....	.....	.....
Number injured.....	.....	5	1	.....	6

Whole number of mines reported for 1912, 60.

Number of new mines opened during year, 2.

Number of mines abandoned during the year, 11.

Whole number of mines reported for 1913, 51.

## SECOND INSPECTION DISTRICT—1913

COUNTIES—BUREAU, HENRY, KNOX, MERCER, ROCK ISLAND, STARK, WARREN.  
THOMAS HUDSON, *Inspector*, GALVA

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bureau, Henry, Knox, Mercer, Rock Island, Stark, and Warren.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	7
Number of shipping mines.....	14
Number of local mines.....	85
Number of new or re-opened mines.....	15
Number of closed or abandoned mines.....	21
Number of miners.....	3,467
Others underground, men.....	781
Boys underground.....	64
Boys above ground.....	..
Others above ground.....	392
Total number of employees.....	4,704
Total tons of coal produced.....	2,392,316
Days of active operation, all mines.....	155
Kegs of powder used for blasting coal.....	28,442
Tons of coal shipped.....	2,021,917
Tons supplied to locomotives.....	38,295
Tons sold to local trade.....	219,702
Tons consumed and wasted at mines.....	112,402
Number of fatal accidents.....	6
Number of non-fatal accidents.....	128
Number of employees to each fatal accident.....	784
Number of employees to each non-fatal accident.....	37
Tons of coal produced to each fatal accident.....	398,719
Tons of coal produced to each non-fatal accident.....	18,690
Ratio of fatal accidents per 1,000 employees.....	1.28

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Bureau.....	1,681,103	1,798,436	117,333	.....
Henry.....	87,171	56,151	.....	31,020
Knox.....	34,517	30,810	.....	3,707
Mercer.....	334,662	421,593	86,931	.....
Rock Island.....	71,696	55,709	.....	15,987
Stark.....	32,746	21,974	.....	10,772
Warren.....	8,498	7,643	.....	855
Total.....	2,250,393	2,392,316	204,264	62,341
Net.....	.....	.....	141,923	.....

## NEW MINES

The following mines were reported for the first time this year and are classed as new mines:

*Bureau County*.—C. W. Riley, Sheffield.

*Henry County*.—Waterloo Coal Co., North Eastern Coal Co., Ernest Gray, Hogett Bros., Kewanee; and Summerson & Fude, Coal Valley.

*Knox County*.—Charles Lopeman, Rapatee; A. J. Nelson, Knoxville; Nelse Norburg, Frank Watson and George S. Anderson, Victoria.

*Mercer County*.—Fulton County Coal Co., Mathersville; and S. J. Young, New Windsor.

*Warren County*.—Alford Manuel, Youngstown; Bryner Bros., Roseville.

## ABANDONED MINES

Twenty-one mines, which were reported in 1912, are not in this report and are classed as "abandoned."

*Bureau County*.—Rockyrun Coal Co., Tiskilwa; William Masters & Bros., Sheffield; George Prunt, Tiskilwa.

*Henry County*.—E. S. Barlow, Kewanee; Bates Bros., Kewanee; Frank E. Lane, Cambridge; Rudolph Marke, J. F. Kincade and G. Wells, Briar Bluff.

*Knox County*.—Galva Mining Co., Wataga; James Wheatcraft, Victoria; John Paul, Rapatee; Frank Westerfield, Galesburg; Thomas Godsell, Dahinda.

*Mercer County*.—C. W. Essley, Viola.

*Rock Island County*.—Charles Rosemon, Carbon Cliff.

*Stark County*.—Endreas Bros., LaFayette.

*Warren County*.—Gus Von Ach, Roseville; E. J. Sprinkle, Avon; Lee & Miller, Swan Creek, and W. Cook, Alexis.

## CHANGE OF NAME

The names of the following mines have been changed:

*Bureau County*.—James Nave to Fleming & Williams.

*Henry County*.—Chilton & Boggs to North Main Coal Co.

*Knox County*.—Eric Strom to Ed. Horkstrom; Aaron Tell to Ed. Boostrom.

*Mercer County*.—W. H. Riddell to Axel Link.

*Rock Island County*.—J. J. Pryce & Son to Otto Kuhlman & Co.; Pryce & Severs to J. J. Pryce & Co.

*Stark County*.—W. B. Ballentine to Swan & Blakey; Andrew Coal Co. to Theodore McDaniel; and William Dalrymple to George Edwards & Co.

*Warren County*.—F. R. Kennedy to Taylor Bros.; Manuel & Beckner to Beckner & Romine; and H. Chatterton to Taylor & Workman.

## IMPROVEMENTS

The most costly and permanent improvement made, or about to be made, during the year, are two underground stables, one at the mine of the Illinois Third Vein Coal Co., Ladd, Bureau Co., the other at the St. Paul Coal Company's mine No. 2, Cherry, Bureau County.

The former is practically completed, the latter is in course of construction and will probably be finished in two or three months.

These stables will be absolutely fire-proof, or as nearly as steel, brick and concrete can make them.

## FATAL ACCIDENTS

August 23, 1912, Hugh Lenehan, driver, aged 19 years, single, was killed by pit cars in the No. 5 mine of the Spring Valley Coal Co., Dalzell, Bureau County.

October 11, 1912, John McMahon, cartrimmer, aged 24 years, single, employed at the No. 1 mine of the Spring Valley Coal Co., Spring Valley, Bureau County, was struck by railroad cars and instantly killed.

November 22, 1912, David Lloyd, driver, aged 43 years, single, employed at the Spring Valley Coal Company's No. 4 mine, Seatonville, Bureau County, was run over by pit cars. He was removed to the hospital at Spring Valley where he died about twelve hours after the accident.

December 21, 1912, Louis Barzini, miner, aged 35 years, married, was struck by a fall of coal in the Spring Valley Coal Company's No. 5 mine, Dalzell, Bureau County. Deceased lived until December 21st, eight days after the accident. He leaves a widow and two children.

February 10, 1913, Louis Ottino, miner, aged 58 years, single, employed at the No. 1 mine of the Spring Valley Coal Co., Spring Valley, Bureau County, was killed by falling rock. He died at the Spring Valley Hospital fifty-six hours after the accident occurred.

April 18, 1913, Anton Burnus, laborer, aged 24 years, married, was killed by pit cars in the No. 2 mine of the St. Paul Coal Co., Cherry, Bureau County. He leaves a widow.

Respectfully submitted,

THOMAS HUDSON

State Inspector of Mines, Second District, Galva, Ill.

### FATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Aug. 23	Hugh Lenehan	19	Driver	Spring Valley		1				Pit cars
Oct. 11	John McMahon	24	Car trimmer	do		1				Railroad cars
Nov. 22	David Lloyd	43	Driver	Seatonville		1				Pit cars
Dec. 21	Louis Barzini	35	Miner	Dalzell	1		1	2	3	Falling coal
1913										
Feb. 10	Louis Ottino	58	Miner	Spring Valley		1		1		Falling roof
Apr. 18	Anton Burnus	24	Laborer	Cherry	1		1		1	Pit cars
	Total				2	4	2	3	4	

### RECAPITULATION OF FATAL CASUALTIES, SECOND DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Cherry	1	Car trimmer	1	Falling coal	1	St. Paul	1
Dalzell	1	Drivers	2	Falling roof	1	Spring Valley	5
Seatonville	1	Laborers	1	Pit cars	3		
Spring Valley	3	Miners	2	Railroad cars	1		
Total	6		6		6		6

### NON-FATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July 1	John Reges	28	Spring Valley		1			Leg injured, pit cars	92
8	Pete Cometa	30	Seatonville	1		1	2	Body injured, heat	136
17	Anton Prusitius	17	Spring Valley		1			Finger injured, falling roof	57
25	Louis Fritchie	51	Sherrard		1			Ankle broken, falling coal	86
29	Ettore Ansuine	35	Ladd	1			1	Leg injured, falling coal	70

## NON-FATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Aug. 1	Mike Galletti	43	Seatonville	1		4	5	Back injured, falling roof	145
7	Henry Talkeld	36	Sherrard	1			1	Hand injured, pit car	33
9	Theo. Toplitol	45	Ladd	1			1	Leg broken, falling coal	116
9	Jean Maisse	40	do.	1				Body injured, pit cars	*
22	Wm. Packer	22	Dalzell		1			do.	*
22	Bernard Ciprezzi	25	do.		1			Foot injured, pit cars	31
26	L. Meadowcroft	29	Marquette	1		1	2	Ribs broken, motor	46
26	John Orlandini	42	Ladd		1			Leg injured, falling coal	52
26	John Croixant	18	do.		1			Foot injured, railroad cars	30
29	Sabatina Manniani	41	Dalzell	1		5	6	Body injured, pit cars	*
Sept. 3	Alfredo Lenzie	23	do.		1			Finger injured, falling roof	44
4	Thos. Lunn	22	Seatonville		1			Leg injured, falling coal	43
7	Wm. Kane	55	Spring Valley	1		3	4	Head injured, falling roof	47
8	John Michael	35	Seatonville	1		6	7	Hand injured, falling roof	37
9	Frank Binster	64	Ladd	1		5	6	Leg broken, pit cars	*
14	Albert Sarto	22	Cherry	1				Eye destroyed, kicked by mule	92
18	Mike Gambo	50	Spring Valley	1		4	5	Leg broken, falling coal	132
20	A. P. Hamill, Jr.	18	Cherry		1			Fingers injured, pit cars	40
25	Joe. French	22	Dalzell		1			Body injured, pit cars	42
27	Chas. Schafer	45	Spring Valley	1		2	3	Hand injured, falling roof	50
27	Dom. Ritchie	36	Dalzell	1		5	6	Body injured, falling coal	30
Oct. 11	Anton Orlandini	36	Seatonville	1		4	5	Foot injured, falling roof	59
13	Emil Giroz	39	Cherry		1			Body injured, falling coal	35
18	Adam Nicholini	48	Seatonville		1			Leg broken, falling coal	*
23	Peter Prostko	34	Spring Valley	1		3	4	Foot injured, falling coal	41
23	Chas. Arman	27	do.	1		2	3	Leg injured, pit cars	43
24	Adam Rabbi	28	Cherry	1				Leg injured, falling coal	53
28	S. Levandovsky	35	do.	1		2	3	Foot injured, falling coal	35
Nov. 2	W. H. Julian	39	do.	1		1	2	Foot broken, caught by transfer	100
4	Vinceniz Cacula	28	Spring Valley		1			Shoulder injured, struck by prop.	30
5	Wm. James	30	Seatonville	1			1	Foot injured, falling roof	54
6	Fred Dart	23	Spring Valley	1			1	Foot injured, pit car	51
6	Joe. Nardi	37	Dalzell	1		7	8	Finger injured, falling roof	71
7	Allen Latimore	48	Seatonville	1			1	Arm injured, falling coal	35
8	John Miglio	28	Spring Valley	1		3	4	Arm injured, kicked by mule	34
9	Wm. Kane	56	do.	1			1	Leg injured, fell on track	60
10	Wm. Honzze	31	Seatonville	1		4	5	Head injured, falling roof	54
12	Pat. McCormick	43	Spring Valley		1			Eye injured, flying coal	48
27	Jas. Murphy	43	do.		1			Foot injured, pit cars	37
30	John Garland	50	do.		1			Arm injured, falling roof	30
Dec. 3	Carlo Brazini	45	do.		1			Hand broken, pit cars	110
4	Henry Nichol	48	Sherrard	1		3	4	Back injured, falling roof	*
5	Joe. Bronsaka	17	Spring Valley		1			do.	*
6	Thos. Kossellas	57	Marquette	1		8	9	Wrist broken, falling coal	*
7	Victor Sebben	45	Ladd	1			1	Foot injured, falling roof	60
16	John Rozebi	46	Spring Valley		1			Leg injured, falling coal	35
16	A. Zucharini	22	Cherry		1			Leg broken, pit cars	*
21	Louis Bodie	40	Marquette	1		4	5	Leg broken, falling coal	90
28	N. Musu	18	do.		1			Fingers injured, tail chain	39
28	John O'Beirne	64	Spring Valley	1		5	6	Collar bone broken, falling roof	45
28	ohn Melke	18	Coal Valley		1			Leg broken, falling roof	80
31	John Zecca	32	Spring Valley	1			1	Foot injured, falling roof	30
1913									
Jan. 3	Gasp. Ghelardini	18	Cherry		1			Foot injured, falling coal	50
8	Stanley Ranch	18	Spring Valley		1			Leg injured, pit cars	43
8	John Balzerina	18	do.		1			Leg injured, pit cars	53
9	Tony Waitchunas	42	do.		1			Head injured, falling coal	53
10	Peter Ghibellini	52	do.		1			Hand injured, falling coal	37
10	George Baxter	55	do.	1		6	1	Back injured, falling roof	38
10	Santa Genessi	41	Seatonville		1	6	7	Foot broken, pit car	*
13	Anton Ricco	35	Dalzell		1			Leg broken, falling roof	169
15	Barto Pistorasso	30	Spring Valley	1			1	Back injured, falling roof	*
20	Joe. Gedwilas	24	do.		1			Leg injured, falling roof	46
22	Joe. Venturia	16	Dalzell		1			Leg broken, pit car	*
24	Jas. Bettocchi	48	Cherry	1		4	5	Ankle injured, falling coal	48
25	Joe Corna	41	Spring Valley		1			Head injured, falling roof	151
28	Jake Pitroski	46	do.	1		9	10	Leg injured, pit cars	30
Feb. 7	Olof Benson	46	Cherry	1		1	2	Back injured, falling coal	40
8	Louis Monari	28	do.		1			Arm injured, falling coal	32
12	John Collier	30	Seatonville		1			Back injured, falling roof	32
13	John Matulantus	36	Cherry	1		2	3	Leg broken, fall of roof	*
14	Lorenzo Primo	34	Seatonville	1		3	4	Eye injured, flying coal	54
15	Vic Lavzuke	35	Cherry		1			Arm broken, falling roof	*



NON-FATAL CASUALTIES, SECOND DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
Feb. 17	Louis Wetzel	38	Kewanee	1		4	5	Collar bone broken, falling roof	44
26	Martin Harmon	55	Spring Valley	1		2	1	Rib broken, falling coal	38
Mar. 5	Louis Remis	26	do.	1	1			Back injured, falling roof	41
5	Frank Grear	57	Sherrard	1		2	3	Leg broken, falling roof	*
6	K. G. Holtgren	41	Mathersville	1		3	4	Arm broken, struck by windlass	61
13	Joe. Demaria	53	Spring Valley	1	1			Finger injured, falling coal	*
14	Jacomia Dinella	24	do.	1	1			Nose broken, falling roof	56
18	Barney Pytlík	42	do.	1		8	9	Fingers broken, falling roof	79
20	Frank Yanges	52	do.	1		3	4	Leg injured, falling roof	40
22	Frank Payton	22	do.	1	1			Finger injured, pit cars	33
28	John Love	54	do.	1		5	6	Rib broken, falling coal	31
31	Pozzi Madardo	27	Dalzell	1		1	2	Ankle injured, falling roof	32
Apr. 3	Joe Valle	18	do.	1	1			Toe broken, falling roof	*
7	Louis James	24	Mathersville	1	1			Leg broken, pit cars	95
8	Joe Farina	35	Seatonville	1	1			Head injured, falling coal	38
9	Jos. Pedron	35	Ladd	1		8	9	Finger injured caught by cage	35
14	Carlo Bobbio	26	Cherry	1		2	3	Leg injured, pit cars	84
18	John Savio	58	Spring Valley	1		4	1	do.	60
26	Louis Paulina	30	Seatonville	1		3	4	Arm injured, falling coal	60
26	Alfred Grosso	53	Spring Valley	1			1	Head injured, falling roof	49
28	Steve Rosette	34	Cherry	1		1	2	Head injured, falling roof	60
May 1	Joe Farrari	31	Spring Valley	1		5	6	Leg injured, falling roof	30
5	Joe Petricions	26	do.	1			1	Foot injured, falling roof	*
6	Etor Grotti	21	Seatonville	1	1			Finger injured, tail chain	34
7	Andy Kuneriska	18	Spring Valley	1	1			Hand injured, pit cars	48
8	Dom. Parise	45	Ladd	1			1	Body injured, falling coal	*
10	Piccioni Guilerino	30	do.	1			1	Body injured, falling roof	*
15	Allilio Catoni	35	do.	1		4	5	Leg broken, falling coal	*
17	Theo. Turchi	48	Spring Valley	1		3	4	do.	*
19	Tony Polich	36	Cherry	1		1	2	Toe injured, falling coal	*
19	Earl Collier	17	Seatonville	1	1			Foot injured, pit cars	49
22	Anselmo Miglio	41	do.	1		1	2	Head injured, falling roof	*
23	Frank Gotout	40	do.	1			1	Leg broken, pit cars	*
28	Cecil Baracana	38	Spring Valley	1		2	3	Foot injured, falling coal	*
29	Aug. Patterezzi	30	Cherry	1			1	Leg injured, falling coal	39
29	Louis Piehinelli	26	do.	1	1			Shoulder injured, falling roof	36
29	John Roniagnoli	61	do.	1		4	5	do.	*
29	Dom. Fianessi	43	Seatonville	1		7	8	Collar bone broken, falling coal	*
June 5	Wm. Shaw	17	Dalzell	1	1			Foot injured, pit cars	*
7	Peter Beliska	19	Spring Valley	1	1			Fingers injured, pit cars	*
7	Jack Verlucca	36	do.	1		2	3	Foot injured, pit cars	*
9	Dom. Miglio	58	do.	1		5	6	Ribs broken, falling coal	*
12	Geo. Sedauskia	26	do.	1				Fingers injured, falling roof	*
14	Constant Chiado	18	do.	1	1			Fingers injured, pit cars	*
14	Mike Galetto	44	Seatonville	1		4	5	Foot injured, falling coal	*
18	Chas. Lunn	21	Seatonville	1				Leg injured, pit car	*
20	Reinhart Reeland	18	Spring Valley	1	1			Arm broken, pit cars	*
23	Peter Gaudi	28	Dalzell	1			1	Body injured, falling coal	*
27	Angel Pastel	27	Spring Valley	1		1	2	Foot injured, falling roof	*
30	Lothario Panizzi	38	do.	1			1	Leg injured, falling roof	*
30	John Rodgers	18	Seatonville	1	1			Head injured, struck by wire rope	*
	Total			72	56	198	258		

\* Not returned to work July 1, 1913.

Total number of men injured..... 128  
 Number not returned to work, July 1, 1913..... 41

Number returned to work..... 87

Total time lost by men returned to work—days..... 4,858

Average number of days lost by men returned to work..... 55.72



## RECAPITULATION OF NON-FATAL CASUALTIES, SECOND DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Cherry.....	19	Carpenter.....	1	Cage.....	1	Coal Valley.....	6
Coal Valley.....	1	Drivers.....	16	Falling coal.....	38	Illinois Third Vein.....	11
Dalzell.....	13	Laborers.....	14	Falling roof.....	44	Kewanee.....	1
Kewanee.....	1	Miners.....	91	Fell on track.....	1	Marquette.....	6
Ladd.....	11	Motorman.....	1	Flying coal.....	1	Pryce, J. J.....	1
Marquette.....	4	Spragger.....	1	Heat.....	1	St. Paul.....	19
Mathersville.....	2	Timbermen.....	2	Motor.....	1	Spring Valley.....	84
Seatonville.....	22	Trappers.....	2	Mule, kicked by.....	2		
Sherrard.....	4			Pit cars.....	32		
Spring Valley.....	51			Prop, struck by.....	1		
				Railroad cars.....	1		
				Rope, struck by.....	1		
				Tail chain.....	2		
				Transfer, caught by.....	1		
				Windlass, struck by.....	1		
Total.....	128		128		128		128

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS AND TIME LOST, SECOND DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankle broken.....	1		1			86	86.0	.78
Ankles injured.....	2	2		5	7	80	40.0	1.56
Arms broken.....	3	1	2	3	4	61	61.0	2.34
Arms injured.....	5	3	2	6	9	191	38.2	3.91
Backs injured.....	8	5	3	14	13	296	59.2	6.25
Bodies injured.....	10	6	4	11	17	243	60.8	7.81
Collar bone broken.....	3	3		16	19	89	44.5	2.34
Eyes destroyed.....	1		1			92	92.0	.78
Eyes injured.....	2	1	1	3	4	102	51.0	1.56
Feet broken.....	2	2		7	9	100	100.0	1.56
Feet injured.....	18	12	6	18	30	537	44.8	14.07
Fingers broken.....	1	1		8	9	79	79.0	.78
Fingers injured.....	12	2	10	15	17	353	44.1	9.38
Hands broken.....	1		1			110	110.0	.78
Hands injured.....	6	4	2	8	12	254	42.3	4.69
Heads injured.....	9	5	4	14	13	433	61.9	7.03
Legs broken.....	15	9	6	24	33	682	113.8	11.72
Legs injured.....	18	9	9	20	31	843	52.7	14.07
Nose broken.....	1		1			56	56.0	.78
Ribs broken.....	4	4		13	15	105	35.0	3.13
Shoulder injured.....	3	1	2	4	5	66	33.0	2.34
Toes broken.....	1		1					.78
Toes injured.....	1	1		1	2			.78
Wrist broken.....	1	1		8	9			.78
Total.....	128	72	56	198	258	4,858	55.72	100.00

## BUREAU COUNTY, SECOND DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keels of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accidents
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other purposes	Average number of miners	All other employees	Total	
SHIPPING MINES														
1	St. Paul Coal Co., No. 2	Cherry	1,546	276,137	58,828	336,511	321,428	15,083	263	392	102	494	336,511	1
2	Spring Valley Coal Co., No. 5	Dalzell	2,169	254,211	50,376	306,756	296,892	9,864	229	495	84	579	306,756	2
3	Spring Valley Coal Co., No. 1	Spring Valley	32,267	221,413	42,351	296,031	255,282	40,749	227	460	152	612	296,031	2
4	Ill. Third Vein Coal Co., No. 1	Ladd	25,346	180,048	35,291	261,685	203,186	58,499	253	390	193	583	261,685	1
5	Spring Valley Coal Co., No. 3	Spring Valley	33	180,381	34,869	215,283	206,278	9,005	186	410	132	542	215,283	7
6	Spring Valley Coal Co., No. 4	Seatonville	3,813	180,068	28,932	212,813	199,593	13,220	219	363	143	506	212,813	24
7	Marquette 3d Vein C. M. Co., No. 1	Marquette	1,780	72,912	80,917	155,609	141,069	14,540	225	240	91	331	155,609	6
	Total		66,954	1,386,170	331,564	1,784,688	1,623,728	160,960	232	2,750	897	3,647	1,784,688	6
LOCAL MINES														
1	Donahue & Jones	Sheffield		8,406	200	8,606		8,606	225	17	4	21	8,606	
2	L. F. Brand	Mineral		3,106	300	3,406		3,406	200	7	1	8	3,406	
3	Fleming & Wilkinson	Sheffield		1,162	300	1,462		1,462	10	125	5	1	1,462	
4	C. W. Riley	do.		226	60	286		286	50	3	1	4	286	
	Total			12,888	860	13,748		13,748	235	156	32	7	13,748	
	Total—11 mines		66,954	1,399,058	332,424	1,798,436	1,623,728	174,708	235	2,782	904	3,686	1,798,436	6

Mines reported for 1912, 13.  
 New mines, 1.  
 Abandoned mines, 3.  
 Mines in 1913, 11.

## HENRY COUNTY, SECOND DISTRICT, 1913

SHIPPING MINES																
1	Kewanee Coal Co., No. 2	Kewanee.....	50	2,800	1,318	4,168	1,035	3,133	.....	123	12	5	17	4,168	.....	1

## LOCAL MINES

1 Fred Henry & Co.	3,000	8,000	300	11,300	250	16	2	18	11,300	.....
2 Kewanee Co-operative Coal Co.	.....	8,685	600	9,285	275	14	2	16	9,285	.....
3 Grace & Co.	.....	4,818	1,246	6,064	180	9	1	10	6,064	.....
4 North Main Coal Co.	.....	3,742	708	5,708	217	8	1	9	5,708	.....
5 Matt Atkinson.	1,263	2,424	.....	3,232	225	7	1	8	3,232	.....
6 Herman Hintz & Bro.	808	2,760	200	2,960	24	150	4	1	2,960	.....
7 Waterloo Coal Co.	.....	1,866	254	2,150	168	7	2	9	2,150	.....
8 Kewanee.	.....	1,554	540	2,094	100	6	2	8	2,094	.....
9 North Eastern Coal Co.	.....	1,700	300	2,000	200	5	1	6	2,000	.....
10 Jos. Engle & Co.	.....	1,600	40	1,640	100	4	1	5	1,640	.....
11 Ernest Gray.	500	600	.....	1,100	60	90	3	1	1,100	.....
12 Donahoe Coal Co.	.....	900	150	1,050	150	3	1	4	1,050	.....
13 James Kemmerling & Son.	.....	750	.....	750	100	4	1	5	750	.....
14 Todd Bros.	.....	600	.....	600	10	130	2	2	600	.....
15 Summerson & Fude.	.....	450	14	480	100	3	.....	2	480	.....
16 Wilson & Swan.	16	400	.....	400	100	3	.....	3	400	.....
17 Fred Kershaw.	.....	320	.....	320	85	2	.....	3	320	.....
18 Malcom & Wilson.	.....	310	60	310	120	2	.....	2	310	.....
19 D. O. Loy.	.....	240	60	300	50	3	1	4	300	.....
20 Robt. K.W.	.....	150	.....	150	5	80	1	1	150	.....
21 Briar Bluff.	.....	72	8	80	15	2	.....	2	80	.....
21 Rodgett Bros.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	5,587	41,891	4,505	51,983	99	140	108	18	51,983	.....
Total—22 mines.	5,637	44,691	5,823	55,116	99	139	120	23	56,151	.....

Mines reported for 1912, 23.

New mines, 5.

Abandoned mines, 6.

Mines in 1913, 22.

## KNOX COUNTY, SECOND DISTRICT, 1913

1 T. H. Milan.	.....	4,700	500	5,200	200	150	10	2	5,200	.....
2 F. H. Morse.	.....	4,500	.....	4,500	125	225	6	6	4,500	.....
3 Rodell & Mitchell.	.....	3,481	300	3,781	280	6	2	8	3,781	.....
4 S. D. McGovern.	.....	2,300	200	2,500	260	5	1	6	2,500	.....
5 Ed. Horkstrom.	.....	2,020	200	2,220	14	240	5	5	2,220	.....
6 Newton Anderson.	.....	2,000	.....	2,000	95	210	3	3	2,000	.....
7 Bangston Bros.	.....	2,000	200	2,000	290	80	4	4	2,000	.....
8 Leslie Hillier.	.....	1,600	.....	1,600	160	160	3	3	1,600	.....
9 Fenderliast Bros.	.....	1,564	.....	1,564	70	55	6	8	1,564	.....
10 Chas. Gladfelter.	.....	1,030	110	1,140	100	6	2	8	1,140	.....
11 Chas. Lopeman.	.....	960	.....	960	30	175	2	3	960	.....
12 John E. Walsh.	.....	650	.....	650	25	180	2	3	650	.....
Williamsfield.	.....	600	.....	600	.....	.....	.....	.....	600	.....

KNOX COUNTY, SECOND DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees			Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other purposes	Average number of miners	All other employees	Total	By hand	By machine	Killed
LOCAL MINES— <i>Concluded</i>																
13	Ed Boostrom.....	Oneida.....	.....	450	80	530	.....	530	110	3	.....	3	530	.....	.....	.....
14	D. I. Foster.....	Rapare.....	.....	500	.....	500	.....	500	40	2	.....	2	500	.....	.....	.....
15	N. C. Anderson.....	Knoxville.....	.....	443	50	493	.....	493	136	3	1	4	493	.....	.....	.....
16	Wm. Charnock.....	Dalhinda.....	.....	450	.....	450	.....	450	120	2	.....	2	450	.....	.....	.....
17	Eli Anderson.....	Victoria.....	.....	400	.....	400	.....	400	100	3	.....	3	400	.....	.....	.....
18	Chas. Morgan.....	Oneida.....	.....	360	.....	360	.....	360	90	2	.....	2	360	.....	.....	.....
19	Nelse, Norburg.....	Victoria.....	.....	300	.....	300	.....	300	80	2	.....	2	300	.....	.....	.....
20	Albert Wahlberg.....	Knoxville.....	72	200	.....	272	.....	272	100	2	.....	2	272	.....	.....	.....
21	Chas. Henderson.....	Victoria.....	.....	190	20	210	.....	210	55	2	.....	2	210	.....	.....	.....
22	A. J. Nelson.....	Knoxville.....	.....	160	40	200	.....	200	80	1	.....	1	200	.....	.....	.....
23	Frank Watson.....	Victoria.....	.....	60	10	70	.....	70	40	1	.....	1	70	.....	.....	.....
24	Louis Nodine.....	Wataga.....	.....	60	.....	60	.....	60	40	1	.....	1	60	.....	.....	.....
25	Geo. S. Anderson.....	Victoria.....	.....	50	.....	50	.....	50	60	1	1	2	50	.....	.....	.....
Total—25 mines.....			72	29, 028	1, 710	30, 810	.....	30, 810	759	83	11	94	30, 810	.....	.....	.....

Mines reported for 1912, 25.

New mines, 5.

Abandoned mines, 5.

Mines in 1913, 25.

## MERCER COUNTY, SECOND DISTRICT, 1913

<b>SHIPPING MINES</b>																
1	Coal Valley M. Co., No. 3.....	Mathersville.....	5, 752	63, 039	89, 208	157, 999	152, 923	5, 076	8, 826	207	104	79	183	153, 280	4, 719	2
2	Alden Coal Co., No. 7.....	do.....	228	52, 454	71, 762	124, 444	123, 741	7, 908	7, 908	185	108	52	160	124, 444	.....	.....
3	Coal Valley M. Co., No. 2.....	Sherrard.....	2, 439	29, 266	87, 253	118, 958	106, 245	12, 713	6, 114	237	80	69	149	118, 958	.....	4
4	Fulton Co. Coal Co., No. 2.....	Mathersville.....	260	682	1, 123	2, 065	1, 395	670	150	47	10	14	24	2, 065	.....	.....
<b>Total.....</b>			8, 679	145, 441	249, 346	403, 466	384, 304	19, 162	22, 998	169	302	214	516	398, 747	4, 719	6



## STARK COUNTY, SECOND DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes		Average number of miners	All other employees	By hand	By machine	Killed	Injured
1	SHIPPING MINES Wyoming Mining Co.....	Wyoming.....	2, 600	3, 065	1, 088	6, 753	4, 850	1, 903	285	149	12	7	19	6, 753	.....
1	LOCAL MINES Snare and Blakey.....	Wyoming.....	.....	3, 880	240	4, 120	.....	4, 120	250	270	7	2	9	4, 120	.....
2	Theodore McDaniel.....	do.....	.....	2, 560	600	3, 160	.....	3, 160	120	160	8	2	10	3, 160	.....
3	A. J. Carlton.....	LaFayette.....	.....	2, 304	192	2, 496	.....	2, 496	10	240	5	1	6	2, 496	.....
4	Jesse Saville.....	Toulon.....	.....	2, 085	.....	2, 085	.....	2, 085	10	200	3	1	4	2, 085	.....
5	James Scott.....	Wyoming.....	.....	1, 600	160	1, 760	.....	1, 760	100	210	6	1	7	1, 760	.....
6	Geo. Endres & Co.....	do.....	200	1, 250	150	1, 600	.....	1, 600	40	200	3	.....	3	1, 600	.....
	Total.....	.....	200	13, 679	1, 342	15, 221	.....	15, 221	530	213	32	7	39	15, 221	.....
	Total—7 mines.....	.....	2, 800	16, 744	2, 430	21, 974	4, 850	17, 124	815	204	44	14	58	21, 974	.....

Mines reported for 1912, 8.

Abandoned mines, 1.

Mines in 1913, 7.

## WARREN COUNTY, SECOND DISTRICT, 1913

LOCAL MINES											
1	H. J. Rohr.	Alexis.	1,600	280	1,880	100	180	4	1	5	1,880
2	Simcox Bros.	do.	1,311	160	1,471	250	240	4	1	5	1,471
3	Willis Clayton.	Avon.	1,200	16	1,216	150	150	6		6	1,216
4	Taylor Bros.	Monmouth.	1,080		1,080	164	164		1	5	1,080
5	Alfred Manuel.	Youngstown.	640	10	650	120	120		5	5	650
6	Taylor and Workman.	Monmouth.	450	10	460	100	460	3	1	4	460
7	Thos. Caldwell.	Avon.	424	10	434	150	434		2	2	434
8	J. G. Lee.	Youngstown.	240	12	252	100	252	2		2	252
9	Bechner and Romine	do.	120		120	40	120	2	2	2	120
10	Bryner Bros.	Roseville.	80		80	50	50	1		1	80
Total—10 mines.			7,145	498	7,643	350	128	33	4	.37	-7,643

Mines reported for 1912, 12.

New mines, 2.

Abandoned mines, 4.

Mines in 1913, 10.



## RECAPITULATION BY COUNTIES, SECOND DISTRICT, 1913

	Bureau	Henry	Knox	Mercer	Rock Island	Stark	Warren	Total
SHIPPING MINES								
Number of mines.....	7	1	.....	4	1	1	.....	14
Production of different grades, in tons—								
Mine run.....	66,954	50	.....	8,679	.....	2,600	.....	78,283
Lump.....	1,386,170	2,800	.....	145,441	7,200	3,065	.....	1,544,676
Egg.....	49,796	.....	.....	118,703	.....	.....	.....	168,499
Nut.....	58,828	.....	.....	8,592	.....	.....	.....	67,420
Pea.....	191,819	1,318	.....	108,514	2,000	.....	.....	303,651
Slack.....	31,121	.....	.....	13,537	68	1,088	.....	45,814
Total.....	1,784,688	4,168	.....	403,466	9,268	6,753	.....	2,208,343
Disposition of output, in tons—								
Loaded on cars for shipment.....	1,623,728	1,035	.....	384,304	8,000	4,850	.....	2,021,917
Other purposes.....	160,960	3,133	.....	19,162	1,268	1,903	.....	186,426
Kegs of powder used blasting coal.....	.....	.....	.....	22,998	145	285	.....	23,428
Days of active operation.....	232	123	.....	169	188	149	.....	198
Employees underground—								
Miners.....	2,750	12	.....	302	.....	12	.....	3,076
Others.....	600	2	.....	151	24	4	.....	781
Boys.....	53	.....	.....	3	1	.....	.....	57
Employees above ground.....	244	3	.....	60	6	3	.....	316
Total.....	3,647	17	.....	516	31	19	.....	4,230
Tons mined by hand.....	1,784,688	4,168	.....	398,747	.....	6,753	.....	2,194,356
Tons mined by machine.....	.....	.....	.....	4,719	9,268	.....	.....	13,987
Number of machines in use.....	.....	.....	.....	1	2	.....	.....	3
Number of motors in use.....	.....	.....	.....	1	.....	.....	.....	1
Number killed.....	6	.....	.....	.....	.....	.....	.....	6
Number injured.....	120	1	.....	6	.....	.....	.....	127
Blasting coal—								
From solid—tons.....	1,784,688	4,168	.....	403,466	.....	6,753	.....	2,199,075
Undercut—tons.....	.....	.....	.....	.....	9,268	.....	.....	9,268
Both methods—tons.....	.....	.....	.....	.....	.....	.....	.....	.....
LOCAL MINES								
Number of mines.....	4	21	25	9	10	6	10	85
Production of different grades in tons—								
Mine run.....	.....	5,587	72	4,166	2,379	200	.....	12,404
Lump.....	12,888	41,891	29,028	13,064	31,504	13,679	7,145	149,199
Other grades.....	860	4,505	1,710	897	12,558	1,342	498	22,370
Total.....	13,748	51,983	30,810	18,127	46,441	15,221	7,643	183,973
Kegs of powder used blasting coal.....	235	99	759	1,032	2,009	530	350	5,014
Days of active operation.....	156	140	142	150	155	213	129	148
Number of employees.....	39	126	94	49	90	39	37	474
Tons mined by hand.....	13,748	51,983	30,810	18,127	46,441	15,221	7,643	183,973
Tons mined by machine.....	.....	.....	.....	.....	.....	.....	.....	.....
Number killed.....	.....	.....	.....	.....	.....	.....	.....	.....
Number injured.....	.....	.....	.....	.....	1	.....	.....	1

Whole number of mines reported for 1912, 105.

Number of new mines opened during year, 15.

Number of mines abandoned during the year, 21.

Whole number of mines reported for 1913, 99.

### THIRD INSPECTION DISTRICT—1913

COUNTIES—MARSHALL, MENARD, PEORIA, PUTNAM, TAZEWELL, WOODFORD.

JOHN DUNLOP, *Inspector*, PEORIA

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Marshall, Menard, Peoria, Putnam, Tazewell, and Woodford.

#### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	6
Number of shipping mines.....	33
Number of local mines.....	61
Number of new or re-opened mines.....	7
Number of closed or abandoned mines.....	14
Number of miners.....	3,554
Others underground, men.....	1,036
Boys underground.....	102
Boys above ground.....	6
Others above ground.....	467
Total number of employees.....	5,165
Total tons of coal produced.....	3,109,287
Days of active operation, all mines.....	167
Kegs of powder used for blasting coal.....	91,978
Tons of coal shipped.....	2,697,029
Tons supplied to locomotives.....	60,051
Tons sold to local trade.....	239,714
Tons consumed and wasted at mines.....	112,493
Number of fatal accidents.....	12
Number of non-fatal accidents.....	60
Number of employees to each fatal accident.....	430
Number of employees to each non-fatal accident.....	86
Tons of coal produced to each fatal accident.....	259,107
Tons of coal produced to each non-fatal accident.....	51,821
Ratio of fatal accidents per 100 employees.....	2.32

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Marshall.....	447,094	468,600	21,506	
Menard.....	220,418	169,149		51,269
Peoria.....	1,207,723	1,244,924	37,201	
Putnam.....	716,531	752,729	36,198	
Tazewell.....	239,424	294,390	54,966	
Woodford.....	183,896	179,495		4,401
Total.....	3,015,086	3,109,287	149,871	55,670
Net.....			94,201	

## NEW MINES

The following mines were not reported last year and are classed as new mines:

Illinois Valley Coal Co. No. 3 and Caldwell Coal Co., Sparland, Marshall County; John W. Mallergren, Petersburg, Menard County; Grant Bros., Pekin, Tazewell County; Herman Durant and Jos. Radelback, Brimfield, and H. C. Ingle, Elmore, Peoria County.

## ABANDONED MINES

There being no report for the following mines, they are classed as abandoned:

William Rhey, Frisby & Davis, Snell & Frisby, Sparland, Marshall County; Ed. Hughes, Sweet Water, Menard County; Peoria County: John Meyer, Chillicothe; Bell Coal Co., John Cannon, Thomas Wantling, Peoria; Keller Coal Co., Bartonville; Radelback & Pemple, Brimfield; William W. Jones & Son and Thomas Searcliff, Mapleton; H. H. Wickwire, Edwards; Jubilee College Coal Co., Oak Hill.

## CHANGE OF NAME

The following mines have changed names, or ownership, since last report:

Loyd Mining Co. to Brand & Walker.

Adolph Andree to Frank Loftin.

Deming & Cruickshank to Peoria District Colliery Co.

Applegate & Lewis to Loran Coal Co.

Isaac Wantling & Co. to Young Coal Co.

Carl Goetz to Pleasant Heights Coal Co.

Appleby & Taylor to James Andrew.

C. J. Off to Groveland Coal Co.

Tallula Coal Co. to Menard County Coal Co.

## FATAL ACCIDENTS

October 28, 1912, Clinton McDaniels, miner, aged 21 years, single, was killed by falling rock in the Eastern Coal Company's mine No. 1, East Peoria, Tazewell County.

October 30, 1912, William Marland, mine examiner, aged 57 years, married, was killed by coming in contact with an electric wire in the No. 1 mine of the Illinois Valley Coal Co., Sparland, Marshall County. He leaves a widow and six children.

November 21, 1912, Sebert Brakebill, driver, aged 24 years, single, was killed by pit cars in the Clarke Coal & Coke Company's No. 2 mine, Peoria, Peoria County.

January 4, 1913, Antone Diding, miner, aged 42 years, married, employed at the No. 1 mine of the B. F. Berry Coal Co., Granville, Putnam Company, was killed by falling coal. He leaves a widow and six children.

January 4, 1913, William Green, laborer, aged 32 years, single, was killed by pit cars in the Wenona Coal Company's No. 1 mine, Wenona, Marshall County.

January 15, 1913, Edward Jones, aged 29 years, married, and William Benn, aged 26 years, married, employed as shot-firers at the Crescent Coal Company's No. 1 mine, Peoria, were killed by an explosion caused by firing two dead holes. Jones leaves a widow and Benn leaves a widow and two children.

January 15, 1913, Phillip Krummel, laborer, aged 46 years, married, employed at the Crescent Coal Company's No. 1 mine, Peoria, was overcome by afterdamp caused by the explosion which killed the two shot-firers. He leaves a widow and four children.

January 26, 1913, Winiford Idle, motorman, aged 21 years, single, was killed by coming in contact with electric wire in the Brewster & Evans Coal Company's mine, Peoria.

February 5, 1913, Robert Archdale, driver, aged 32 years, married, was killed by flying coal in the Hibbard & Snedden mine, Peoria. He leaves a widow and two children.

May 22, 1913, Joseph Laylock, miner, aged 37 years, married, was killed in the Brewster & Evans mine, Peoria, by coming in contact with electric wire. He leaves a widow and five children.

June 13, 1913, John Craig, driver, aged 34 years, married, was killed by pit cars in Tazewell Coal Company's No. 1 mine, Pekin, Tazewell County. He leaves a widow.

Respectfully submitted,

JOHN DUNLOP

*State Inspector of Mines, Third District, Peoria, Ill.*

### FATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Oct. 28	Clinton McDaniels	21	Miner	East Peoria	1	1				Falling rock
30	Wm. Marland	57	Mine examiner	Sparland	1	1	6	3		Electrocuted
Nov. 21	Siebert Brakebill	24	Driver	Peoria	1	1				Pit cars
1913										
Jan. 4	Antone Diding	42	Miner	Standard	1	1	8	6		Falling coal
4	Wm. Green	32	Laborer	Wenona	1	1				Pit car
15	Phillip Krummel	46	Laborer	Vicary	1	1	4	5		Asphyxiation
15	Edward Jones	29	Shot firer	Peoria	1	1		1		Shot explosion
15	Wm. Benn	26	do	do	1	1	2	3		do
26	Winiford Idle	21	Motorman	do	1	1				Electrocuted
Feb. 5	Robert Archdale	32	Driver	do	1	1	2	3		Flying coal
May 22	Joseph Laylock	34	Miner	do	1	1	5	6		Electrocuted
June 13	John Craig	34	Driver	Pekin	1	1		1		Pit cars
Total					8	4	8	27	28	

### RECAPITULATION OF FATAL CASUALTIES, THIRD DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
East Peoria	1	Drivers	3	Asphyxiated	1	Berry, B. F.	1
Pekin	1	Laborers	2	Electrocuted	3	Brewster & Evans	1
Peoria	6	Mine examiner	1	Falling coal	1	Clarke	1
Sparland	1	Miners	3	Falling rock	1	Crescent	3
Standard	1	Motorman	1	Flying coal	1	Eastern	1
Vicary	1	Shot firers	2	Pit cars	3	Hibbard & Snedden	1
Wenona	1			Shot explosion	2	Illinois Valley	1
						Tazewell	1
						Wenona	1
Total	12		12		12		12

## NON-FATAL CASUALTIES, THIRD DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July	12 I. Novak	30	Granville	1		5	6	Head injured, falling rock	31
	13 Joe Stemus	38	Toluca	1		1	2	Leg broken, falling rock	124
	17 Joe Zora	48	Granville	1		4	5	Arm injured, cage	46
	30 Chas. Heitzman	32	Bartonville	1		2	3	Head injured, kicked by mule	31
Aug.	12 Peter Petrovich	65	Wenona	1		4	4	Eye injured, flying coal	94
	15 Lev Magilli	26	Granville	1		1	2	Ankle injured, falling rock	38
	28 Ben Bartizio	38	do.	1				Finger cut off, falling rock	95
	29 Peter Agietta	28	do.	1				Hand injured, falling rock	80
	30 Nick Sokoch	45	Wenona	1				Fingers broken, falling coal	43
Sept.	3 P. Girardi	27	Pekin	1				Wrist injured, pit cars	36
	5 Jas. Lynch	20	Taft	1				Finger cut off, falling rock	62
	13 Andrew Domini	28	Granville	1		3	4	Eye injured, flying rock	56
	28 Chas. Knapp	50	do.	1		5	6	Finger injured, falling rock	34
Oct.	9 John Pautschnick	38	do.	1		2	3	Eye injured, flying coal	86
Nov.	4 Anton Robitz	41	Toluca	1			1	Collar-bone broken, falling coal	64
	13 Peter Memcock	27	Granville	1				Arm injured, falling coal	42
	14 Joe Burdowski	24	do.	1				Ankle broken, falling coal	68
	15 Vincent Magnani	35	do.	1				Back injured, falling coal	34
	18 Jack Novak	38	do.	1		4	5	Leg broken, falling rock	*
	19 Peter Valers	22	Sparland	1				Leg broken, falling rock	46
	20 Leonard Lindsay	18	Peoria	1				Leg broken, pit car	42
Dec.	1 Ernest Zahners	18	do.	1				do.	43
	12 Nelson Rush	45	Edwards	1		3	4	do.	35
	12 Wm. Penn	50	Peoria	1		3	4	Shoulder injured, kicked by mule	91
	14 Virgil Gondolfi	26	Granville	1		2	3	Finger cut off, falling coal	36
	16 Anton Zack	35	do.	1		4	5	Foot injured, falling rock	33
	20 Anton Maratta	40	do.	1				Head injured, falling rock	46
	23 Salatino Carola	43	Toluca	1		5	1	Leg injured, falling coal	48
	31 Morgan Evans	40	Wesley	1		2	3	Leg broken, pit car	201
1913									
Jan.	2 John Parlish	45	Toluca	1		4	1	Finger cut off, caught between doors	44
	7 Simon Koskoski	34	do.	1		1	1	Finger cut off, pit car	41
	9 Alf Lenzi	49	Granville	1		5	6	Leg injured, falling coal	47
	13 James Sleeth	25	Edwards	1			1	Ankle broken, falling slate	53
	13 Ludwig Machini	49	Taft	1		3	4	Eye injured, flying coal	48
	18 Frank Flono	29	Toluca	1				Finger cut off, pit car	33
	20 Peter Sheridan	25	Taft	1		1	2	Leg injured, kicked by mule	48
	21 Andre Mohne	41	do.	1		1	2	Leg broken, pit car	160
Feb.	3 Sylvius Caldarelli	27	Toluca	1		1	1	Foot injured, falling rock	31
	4 John Marriotti	42	do.	1				Finger injured, falling coal	109
	4 Peter Vechia	28	Taft	1		1	2	Body injured, falling coal	116
	24 Joe Zuponski	22	Wenona	1				Body injured, pit car	30
Mar.	14 John Muscarage	53	Granville	1		3	4	Body injured, falling coal	103
	18 Tony Zemperio	49	Toluca	1				Body injured, falling coal	49
	19 Alf Lenzi	49	Granville	1		5	6	Leg injured, falling coal	67
	29 Balista Oberta	43	Taft	1				Ribs broken, falling coal	39
	29 Peter Toglio	47	do.	1				Leg injured, falling coal	30
Apr.	5 Carlo Mimi	32	do.	1		1	2	Finger broken, falling coal	42
	7 Victor Polo	32	Pekin	1				Leg injured, machine	35
	11 Dom Troglio	54	Taft	1		6	4	Ankle injured, falling coal	33
	11 John Mellwine	35	Granville	1		3	4	Foot injured, falling coal	44
	14 Louie Dozzi	48	Taft	1		2	3	Ankle broken, falling coal	32
	19 Peter Biena	38	Granville	1		4	5	Head injured, falling rock	45
	19 Paul Kola	34	Toluca	1		6	1	Leg injured, falling rock	42
	23 S. Bernandini	28	Granville	1		2	3	Head injured, falling rock	*
	26 Emiliano Milano	48	Toluca	1		6	1	Wrist injured, falling coal	39
May	2 Vincent Venturo	54	do.	1		7	1	Eye destroyed, flying sulphur	75
	24 Dom Gilmi	58	do.	1		3	1	Body injured, falling coal	33
June	5 John Young	48	Wenona	1				Shoulder injured, pit car	*
	6 Auglio Desoda	38	Taft	1				Leg injured, falling rock	30
	16 Franz Babic	23	Wenona	1				Back injured, pit car	*
	Total			38	22	115	116		

\* Not returned to work July 1, 1913.

Total number injured	60	Number of days lost by men returned to work	3,183
Number not returned to work July 1, 1913	4	Average days lost by men returned to work	56.84
Number returned to work	56		

## RECAPITULATION OF NON-FATAL CASUALTIES, THIRD DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Bartonville.....	1	Drivers.....	11	Cage.....	1	Berry, B. F.....	13
Edwards.....	2	Machine runner	1	Doors, caught bet..	1	Brewster & Evans.....	1
Granville.....	21	Miners.....	46	Falling coal.....	21	Clarke.....	1
Pekin.....	2	Trip rider.....	1	Falling rock.....	16	Collier Co-operative.....	1
Peoria.....	3	Weighman.....	1	Falling slate.....	1	Crescent.....	1
Sparland.....	1			Flying coal.....	3	Groveland.....	1
Taft.....	11			Flying rock.....	1	Ill. Valley.....	1
Toluca.....	13			Flying sulphur.....	1	Olympia.....	2
Wenona.....	5			Machine.....	1	St. Paul.....	18
Wesley.....	1			Mule, kicked by.....	3	Tazewell.....	2
				Pit cars.....	11	Toluca.....	14
						Wenona.....	5
Total.....	60		60		60		60

RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES,  
CONJUGAL RELATIONS AND TIME LOST, THIRD DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankles broken.....	3	2	1	2	4	153	51.0	5.00
Ankles injured.....	2	2		2	6	71	35.5	3.33
Arms injured.....	2	1	1	4	5	88	44.0	3.33
Backs injured.....	2		2			34	34.0	3.33
Bodies injured.....	5	3	2	7	7	331	66.2	8.34
Collar-bone broken.....	1	1			1	64	64.0	1.67
Eye destroyed.....	1	1		7	1	75	75.0	1.67
Eyes injured.....	4	4		12	15	284	71.0	6.67
Feet injured.....	3	3		8	10	108	36.0	5.00
Fingers broken.....	2	1	1	1	2	85	42.5	3.33
Fingers cut off.....	6	3	3	7	5	311	51.8	10.00
Fingers injured.....	2	1	1	5	6	143	71.5	3.33
Hand injured.....	1		1			80	80.0	1.67
Heads injured.....	5	4	1	13	17	153	38.3	8.34
Legs broken.....	8	5	3	11	16	651	93.0	13.33
Legs injured.....	8	5	3	22	16	347	43.4	13.33
Ribs broken.....	1		1			39	39.0	1.67
Shoulders injured.....	2	1	1	3	4	91	91.0	3.33
Wrists injured.....	2	1	1	6	1	75	37.5	3.33
Total.....	60	38	22	115	116	3,183	56.8	100.00

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Employees			Tons mined		Acci- dents		
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment		Other pur- poses	Average num- ber of min- ers	All others em- ployed	Total	By hand		By machine	Killed
SHIPPING MINES																
1	Toluca Coal Co., No. 1.....	Toluca.....	597	238,643	51,283	290,523	224,427	66,096	.....	301	451	197	648	200,523	.....	14
2	Wenona Coal Co., No. 1.....	Wenona.....	.....	77,716	37,312	115,028	99,594	15,434	.....	214	175	70	245	115,028	.....	5
3	Ill. Valley Coal Co., No. 1.....	Spartan.....	.....	18,766	8,508	27,274	26,903	371	1,884	199	175	19	46	27,274	.....	1
4	Ill. Valley Coal Co., No. 2.....	do.....	88	14,005	5,294	19,297	19,253	134	659	127	10	45	55	9,000	10,387	.....
5	Fulton Co. Coal & M. Co., No. 1.....	do.....	.....	9,047	1,655	10,702	4,121	6,581	.....	215	20	10	30	10,702	.....	.....
6	Ill. Valley Coal Co., No. 3.....	do.....	29	1,250	835	2,114	2,114	.....	185	107	6	4	10	2,114	.....	.....
Total.....			714	359,427	104,887	465,028	376,412	88,616	2,728	194	689	345	1,034	454,641	10,387	20
LOCAL MINES																
1	John H. Pearson.....	Spartan.....	.....	1,800	.....	1,800	.....	1,800	25	140	3	.....	3	1,800	.....	.....
2	R. H. Ingram.....	do.....	.....	500	.....	500	.....	500	25	150	2	.....	2	500	.....	.....
3	Calwell Coal Co.....	do.....	.....	500	.....	500	.....	500	10	114	2	.....	2	500	.....	.....
4	Lopman Bros.....	do.....	.....	400	.....	400	.....	400	20	100	2	.....	2	400	.....	.....
5	John Curtis.....	do.....	.....	300	.....	300	.....	300	15	150	2	.....	2	300	.....	.....
6	Wm. Baugh.....	do.....	.....	72	.....	72	.....	72	.....	90	1	1	2	72	.....	.....
Total.....			.....	3,572	.....	3,572	.....	3,572	95	124	12	1	13	3,572	.....	.....
Total—12 mines.....			714	362,999	104,887	468,600	376,412	92,188	2,823	159	701	346	1,047	458,213	10,387	20

Mines reported for 1912, 13.  
New mines, 2.  
Abandoned mines, 3.  
Mines in 1913, 12.

## MENARD COUNTY, THIRD DISTRICT, 1913

SHIPPING MINES																
1	Wabash Coal Co., No. 2.....	Athens.....	37,322	7,784	14,458	59,564	50,865	8,699	3,010	132	80	45	125	59,564	.....	.....
2	So. Mountain Coal Co., S. M.....	Petersburg.....	7,200	23,036	10,045	40,281	29,737	10,544	2,392	198	47	42	89	40,281	.....	.....



3 Greenview Mining Co., No. 1.....	1, 448	15, 015	19, 485	35, 948	29, 423	6, 525	1, 310	142	32	14	46	35, 948	.....
4 Menard Co. Coal Co., No. 1.....	291	10, 166	3, 917	14, 374	12, 184	2, 190	814	144	20	20	40	14, 374	.....
Total.....	46, 261	56, 001	47, 905	150, 167	122, 209	27, 958	7, 526	179	179	121	300	150, 167	.....
LOCAL MINES													
1 Johnson Bros. Coal Co.....	.....	6, 000	650	6, 650	.....	6, 650	250	212	7	2	9	6, 650	.....
2 John Mallengren, Sr.....	1, 200	1, 550	950	4, 000	.....	4, 000	215	190	6	4	10	4, 000	.....
3 N. Biggs.....	3, 263	.....	.....	3, 263	.....	3, 263	180	250	4	1	5	3, 263	.....
4 Peter Baker.....	.....	2, 387	179	2, 566	.....	2, 766	120	200	3	1	4	2, 766	.....
5 Brand & Walker.....	.....	1, 050	100	1, 200	.....	1, 200	70	86	3	2	5	1, 200	.....
6 Frank Loftin.....	500	.....	100	600	.....	600	25	50	2	1	3	600	.....
7 John Grosball.....	400	.....	.....	400	.....	400	20	100	2	1	3	400	.....
8 John W. Mallengren.....	103	.....	.....	103	.....	103	15	60	2	1	3	103	.....
Total.....	5, 466	11, 487	2, 029	18, 982	.....	18, 982	895	144	29	13	42	18, 982	.....
Total—12 mines.....	51, 727	67, 488	49, 934	169, 149	122, 209	46, 940	8, 421	155	208	134	342	169, 149	.....

Mines reported for 1912, 12.

New mines, 1.

Abandoned mines, 1.

Mines in 1913, 12.

## PEORIA COUNTY, THIRD DISTRICT, 1913

SHIPPING MINES													
1 Clarke Coal & Coke Co., No. 2.....	124, 993	49, 996	74, 994	249, 983	243, 457	6, 526	14, 742	224	210	81	291	249, 983	1
2 Wolschlag Co-operative C. Co.....	77, 788	57, 899	28, 883	164, 570	162, 532	2, 038	10, 064	263	110	30	140	164, 570	1
3 Crescent Coal Co., No. 1.....	21, 447	80, 887	46, 819	149, 153	149, 153	.....	9, 605	203	160	60	220	149, 153	3
4 Brewster & Evans Co., Walbur.....	139, 893	.....	.....	139, 893	139, 893	.....	10, 690	278	96	44	140	139, 893	2
5 Newsam Bros., No. 3.....	30, 859	38, 988	24, 300	94, 147	91, 680	2, 467	5, 379	259	74	33	107	94, 147	.....
6 Peoria Dist. Col. Co., No. 3.....	21, 854	22, 357	39, 402	83, 613	80, 013	3, 600	4, 433	253	75	36	111	61, 212	.....
7 Lorain Coal Co., No. 1.....	52, 000	16, 000	68, 000	64, 000	64, 000	4, 000	1, 133	160	80	40	120	68, 000	.....
8 Warsaw Coal Co.....	1, 401	16, 568	18, 939	42, 908	41, 656	1, 252	3, 114	174	42	20	62	42, 908	.....
9 Collier Co-operative Coal Co.....	13, 871	18, 495	9, 247	41, 613	40, 738	820	2, 190	210	28	12	40	41, 613	1
10 Mapleton Coal Co.....	23, 790	8, 597	4, 298	36, 685	35, 585	1, 100	2, 400	201	50	13	63	36, 685	.....
11 Olympia Coal Mining Co.....	2, 581	15, 008	6, 997	24, 586	22, 437	2, 149	1, 455	114	60	20	80	24, 586	2
12 Lancaster Landing C. & Tr. Co., No. 1.....	20, 157	.....	.....	20, 157	19, 757	2, 010	1, 260	200	30	17	47	20, 157	.....
13 German Coal Co., No. 1.....	8, 968	2, 061	987	12, 016	10, 006	2, 010	1, 185	172	14	9	23	12, 016	.....
14 Youngs Coal Co., No. 1.....	610	4, 590	1, 330	6, 530	6, 430	2, 100	440	102	16	8	24	6, 530	.....
Total.....	546, 212	315, 446	272, 196	1, 133, 854	1, 107, 392	26, 462	67, 090	201	1, 045	423	1, 468	1, 031, 437	6
LOCAL MINES													
1 Winters Coal Co.....	27, 500	.....	.....	27, 500	.....	27, 500	1, 375	224	20	5	25	27, 500	.....
2 Treasures Coal Co.....	4, 175	8, 351	1, 275	13, 801	.....	13, 801	1, 000	212	25	6	31	13, 801	.....

PEORIA COUNTY, THIRD DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees			Tons mined		Accidents
			Output of mines in tons			Tons loaded on cars for shipment	Other purposes			Average number of miners	All others employed	Total	By hand	By machine	
			Mine run	Lump	Other grades										
LOCAL MINES—Concluded															
3	Hibberd & Sneedden Coal Co.	Peoria		9,020				9,020	200	14	3	17	9,020	1	
4	Mohn Coal Co.	do.		7,820				7,820	180	12	3	15	7,820		
5	Limestone Coal Co.	do.		5,145	125			5,145	150	10	2	12	5,145		
6	F. P. Schmidt & Son.	do.		4,654				4,654	192	8	4	12	4,654		
7	F. Martin.	do.		4,000				4,000	150	8	1	9	4,000		
8	Fischer & Blank.	do.		4,000				4,000	180	6	3	9	4,000		
9	George Viary.	do.		3,636				3,636	125	8	2	10	3,636		
10	R. Taylor & Son.	Brimfield.		3,261	180			3,261	285	135	2	9	3,261		
11	Fairoak Coal Co.	Peoria		3,195				3,195	150	5	1	6	3,195		
12	L. Schmidt.	do.		2,314				2,314	165	3	1	4	2,314		
13	Callar Bros.	Chillicothe.		2,256				2,256	126	5	2	7	2,256		
14	Heltzman & Smith.	Mapleton.		1,943	216			1,943	200	4		4	1,943		
15	Colwell & Strong.	Princetonville.		1,600	280			1,880	150	4	1	5	1,880		
16	Pleasant Heights Coal Co.	Peoria.		1,550	20			1,570	201	6	3	9	1,570		
17	Frank Harlin.	Chillicothe.		1,550	50			1,600	175	4		4	1,550		
18	Staton & Blessing.	Mapleton.		1,080	25			1,105	165	3		3	1,105		
19	Harry J. Green.	Hanna City.		1,000				1,000	50	2	1	3	1,000		
20	Baker Bros.	Kingston M's		950				950	75	2	1	3	950		
21	Thos. Jones.	Peoria.		891				891	89	2		2	891		
22	R. C. Crew.	Chillicothe.		816	8			816	260	2		2	816		
23	John H. Smith.	Glasford.		732	20			752	108	2	1	3	752		
24	Clarkson & Hennerly.	Edwards.		706				706	60	180	2	2	706		
25	Henry Penn.	Hanna City.		700				700	34	100	2	2	700		
26	James Dalton.	Elmwood.		600	60			660	44	80	4	4	660		
27	J. W. Miller.	Laura.		623				623	200	2	2	2	623		
28	James Andrews.	do.		599				599	35	175	2	2	599		
29	Wm. Poole.	do.		543	32			575	30	150	2	2	575		
30	Herman Durant.	Brimfield.		512	50			562	200	2	2	2	562		
31	Clark & Martin.	do.		508				508	25	200	2	2	508		
32	R. J. Scott.	Oak Hill.		480				480	30	155	2	2	480		
33	Joseph Radeback.	Brimfield.		450				450	12	150	1	1	450		
34	Thos. Short.	do.		400				400	33	45	2	1	400		
35	Wm. Simons.	Chillicothe.		310	60			310	25	180	1	1	310		
36	Enoch Snider.	Edwards.		285				285	21	86	1	1	285		

37 W. P. Cramer.....	do.....	261	10	271	.....	271	.....	3	90	1	3	271	.....
38 Jos C. Fussner.....	Brimfield.....	270	.....	270	.....	270	.....	2	140	1	2	270	.....
39 Fred Martin.....	Peoria.....	205	6	211	.....	211	.....	1	10	43	1	211	.....
40 Farrell Bros.....	Brimfield.....	112	10	122	.....	122	.....	2	70	2	2	122	.....
41 M. H. Moody.....	Hanna City.....	70	.....	70	.....	70	.....	1	6	30	1	70	.....
42 Frank Marie.....	Peoria.....	53	.....	53	.....	53	.....	1	4	25	1	53	.....
43 H. C. Ingle.....	Elmore.....	36	.....	36	.....	36	.....	1	2	10	1	36	.....
Total.....		40,735	2,427	111,070	.....	111,070	.....	199	7,835	146	244	111,070	.....
Total—57 mines.....		586,947	383,354	1,244,924	.....	1,107,392	.....	468	1,712	1,142,507	102,417	7	6

Mines reported for 1912, 64.  
New mines, 3.  
Abandoned mines, 10.  
Mines in 1913, 57.

PUTNAM COUNTY, THIRD DISTRICT, 1913

1 St. Paul Coal Co., No. 1.....	Granville.....	21,252	343,919	86,257	451,428	429,337	22,091	280	627	153	780	451,428	.....
2 B. F. Berry Coal Co., No. 1.....	do.....	40	182,583	118,678	301,301	284,455	16,846	2	219	110	450	301,301	.....
Total—2 mines.....		21,292	526,502	204,935	752,729	713,792	38,937	2	250	263	1,230	752,729	.....

Mines reported in 1912, 2.  
Mines in 1913, 2.

TAZEWELL COUNTY, THIRD DISTRICT, 1913

1 Tazewell Coal Co.....	Pekin.....	24,802	31,804	91,688	148,294	138,485	9,809	274	180	180	180	148,294	.....
2 Groveland Coal Co., No. 1.....	Peoria.....	54,384	.....	.....	54,384	54,384	.....	1,450	17	69	80	16,962	.....
3 Eastern Coal Co.....	East Peoria.....	3,133	18,803	9,401	31,337	12,821	18,516	1,728	332	40	20	31,337	.....
4 Ubben Coal Co., No. 1.....	Pekin.....	8,418	13,816	7,438	29,672	15,672	14,000	1,275	256	40	15	29,672	.....
5 Champion Coal Co., No. 1.....	do.....	1,420	3,528	2,147	7,096	3,676	1,420	320	20	8	28	7,096	.....
Total.....		92,157	67,952	110,674	270,783	227,038	43,745	4,773	255	117	292	85,007	.....

TAZEWELL COUNTY, THIRD DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Kegs of powder used for blasting coal	Employees			Tons mined		Acci- dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur- poses		Average num- ber of min- ers	All others em- ployed	Total	By hand	By machine		Killed
LOCAL MINES																
1	Lake Erie Coal & Mining Co., No. 1...	Peoria.....	11,190	.....	.....	11,190	.....	11,190	560	179	15	7	22	11,190	.....	.....
2	Marion Marteness.....	East Peoria..	7,800	.....	.....	7,800	.....	7,800	280	200	8	2	10	7,800	.....	.....
3	Gibelhausen Coal Co.....	Peoria.....	4,117	.....	.....	4,117	.....	4,117	164	210	8	1	9	4,117	.....	.....
4	Grant Bros.....	Pekin.....	500	.....	.....	500	.....	500	30	50	3	2	5	500	.....	.....
	Total.....	.....	23,607	.....	.....	23,607	.....	23,607	1,034	160	34	12	46	23,607	.....	.....
	Total—9 mines.....	.....	115,764	67,952	110,674	294,390	227,038	67,352	5,807	213	151	304	455	108,674	185,716	2
																3

Mines reported in 1912, 8.  
New mines, 1.  
Mines in 1913, 9.

## WOODFORD COUNTY, THIRD DISTRICT, 1913

SHIPPING MINES														
1	Roanoke Coal Co., Roanoke.....	Roanoke.....	648	77,736	42,484	120,868	101,594	19,274	260	165	58	223	120,868	.....
2	Minonk Coal Co., No. 2.....	Minonk.....		27,461	31,166	58,627	48,592	10,035	190	118	38	156	58,627	.....
	Total—2 mines.....	.....	648	105,197	73,650	179,495	150,186	29,309	225	283	96	379	179,495	.....

Mines reported for 1912, 2.  
Mines in 1913, 2.

## RECAPITULATION BY COUNTIES, THIRD DISTRICT, 1913

	Marsh- all	Menard	Peoria	Put- nam	Taze- well	Wood- ford	Total
<b>SHIPPING MINES</b>							
Number of mines.....	6	4	14	2	5	2	33
Production of different grades in tons—							
Mine run.....	714	46,261	546,212	21,292	92,157	648	707,284
Lump.....	359,427	56,001	315,446	526,502	67,952	105,197	1,430,525
Egg.....	2,135	1,096	41,596	69,274	38,514	40,705	193,320
Nut.....		7,531	7,603		12,749	3,100	30,983
Pea.....	100,262	34,267	139,702	49,404	43,866	23,077	390,578
Slack.....	2,490	5,011	83,295	86,257	15,545	6,768	199,366
Total.....	465,028	150,167	1,133,854	752,729	270,783	179,495	2,952,056
Disposition of output, in tons—							
Loaded on cars for shipment.....	376,412	122,209	1,107,392	713,792	227,038	150,186	2,697,029
Other purposes.....	88,616	27,958	26,462	38,937	43,745	29,309	255,027
Kegs of powder used for blasting coal.....	2,728	7,526	67,090	2	4,773		82,119
Days of active operation.....	194	179	201	250	255	225	210
Employees—underground—							
Miners.....	689	179	1,045	967	117	283	3,280
Others.....	207	72	258	159	259	58	1,013
Boys.....	29	7	34	20		8	98
Employees—above ground.....	109	42	131	84	33	30	429
Total.....	1,034	300	1,468	1,230	409	379	4,820
Tons mined by hand.....	454,641	150,167	1,031,437	752,729	85,067	179,495	2,653,536
Tons mined by machine.....	10,387		102,417		185,716		298,520
Number of machines in use.....	2		14		16		32
Number of motors in use.....	5		18		1		24
Number killed.....	2		6	1	2		11
Number injured.....	20		6	31	3		60
Blasting coal—							
From solid—tons.....	330,613	150,167	970,225	752,729	68,105	179,495	2,451,334
Undercut—tons.....	115,028		80,016		148,294		343,338
Both methods—tons.....	19,387		83,613		54,384		157,384
<b>LOCAL MINES</b>							
Number of mines.....	6	8	43		4		61
Production of different grades in tons—							
Mine run.....		5,466	40,735		23,607		69,808
Lump.....	3,572	11,487	67,908				82,967
Other grades.....		2,029	2,427				4,456
Total.....	3,572	18,982	111,070		23,607		157,231
Kegs of powder used blasting coal.....	95	895	7,835		1,034		9,859
Days of active operation.....	124	144	146		160		144
Number of employees.....	13	42	244		46		345
Tons mines by hand.....	3,572	18,982	111,070		23,607		157,231
Tons mined by machine.....							
Number killed.....			1				1
Number injured.....							

Whole number of mines reported for 1912, 101.

Number of new mines opened during year, 7.

Number of mines abandoned during the year, 14.

Whole number of mines reported for 1913, 94.

## FOURTH INSPECTION DISTRICT—1913

COUNTIES—CASS, FULTON, HANCOCK, McDONOUGH, MORGAN, SCHUYLER, SCOTT.  
JAMES TAYLOR, *Inspector*, PEORIA

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Cass, Fulton, Hancock, McDonough, Morgan, Schuyler, and Scott.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	7
Number of shipping mines.....	19
Number of local mines.....	172
Number of new or re-opened mines.....	28
Number of closed or abandoned mines.....	23
Number of miners.....	2,519
Others underground, men.....	863
Boys underground.....	41
Boys above ground.....	1
Others above ground.....	318
Total number of employees.....	3,742
Total tons of coal produced.....	2,575,195
Days of active operation, all mines.....	166
Kegs of powder used for blasting coal.....	123,562
Tons of coal shipped.....	2,285,728
Tons supplied to locomotives.....	33,917
Tons sold to local trade.....	189,796
Tons consumed and wasted at mines.....	65,754
Number of fatal accidents.....	2
Number of non-fatal accidents.....	18
Number of employees to each fatal accident.....	1,871
Number of employees to each non-fatal accident.....	208
Tons of coal produced to each fatal accident.....	1,287,598
Tons of coal produced to each non-fatal accident.....	143,066
Ratio of fatal accidents per 1,000 employees.....	0.53

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Cass.....		560	560	
Fulton.....	2,437,173	2,533,079	95,906	
Hancock.....	2,920	2,822		98
McDonough.....	23,612	28,926	5,314	
Morgan.....	1,085	956		129
Schuyler.....	2,736	6,198	3,462	
Scott.....	3,760	2,654		1,106
Total.....	2,471,236	2,575,195	105,242	1,333
Net.....			103,909	

## NEW MINES

The following mines were not reported last year and are classed as new mines:

*Cass County.*—Albert Hoverhack, Beardstown.

*Fulton County.*—O. H. Standard, Bayley & Bowker, Peter Westerfield, Canton; Charles Hall, L. J. Grove, Richard Jones, Astoria; Charles Falkwrath, J. G. Hensley, George Velett, John Daniel, C. H. Dean, Marietta; W. F. McBride, Fairview; Peter Clerry, Middle Grove; B. W. Wright, Breeds.

*McDonough County.*—William Jones, A. Waters, David E. Ebben, Colchester.

*Schuyler County.*—DeWitt & Cummings, Birt Humphrey, Bates & Seward, Joe Davis, George Garrison, Wheelhouse & Wristen, Rushville; Joe Thompson, Bushnell; Pat Parr, F. W. Croxton, Pleasantview; D. B. King, Frederick.

## ABANDONED MINES

There is no report this year from the following mines and they are therefore classed as abandoned:

*Fulton County.*—Maplewood Coal Co., Farmington; F. Taylor, Glasford; Brickert & Newberry, Harry Ellsworth, Clifford McFarland, A. M. Eyman, Lewistown; James Oliver, Theodore Anderson, Marietta; George Smear, Fairview; B. R. Kelley, E. E. Post, J. D. Chute, W. M. Moustard, Cuba; R. C. Green, George Carrison, Dan Weise, Ipava; Cap Newlin, Breeds; Eric Emanuelson, Maple Mills.

*McDonough County.*—Curry Teel, Macomb; Joe Thompson, Rushville; E. R. Lauery, A. L. Reed, Sheldon Grove; McLaughlin Coal Co., Alsey, Scott County.

## CHANGE OF NAME

The names of the following mines have been changed:

*Fulton County.*—George Westerby to Westerby Bros. & Gooden; W. C. Passen to Riverside Coal Co.; Landis & Wages to W. D. Landis; E. G. Boder to Eclipse Coal Co.; Adams & Irwin to Thomas Preston; Rand & Co. to Bartol & Zaborac; Kingsley & Bitner to Tom Bitner; John Gillet to Frank Allin; E. S. Mason to George Vice; William Taylor to Frank Walnut; W. F. McBride to Will Delts; H. H. Muir to Wheatcraft & Son; W. M. Morris to Morris & Wach; Mrs. J. Johnson to J. E. Johnson; French & Hedge to Richard Hedge; J. R. Lingenfelter to L. D. Huggins; M. R. Parks to John Taylor; Bitner & Kingsley to Charles Bitner.

*McDonough County.*—W. R. Hainline to Elmer Hamilton; Hocker & Barrett to William Webster; Wilson & Son to J. E. Wilson; Sam Oldham to T. Fisher; Kipling, Foster & Stone to Foster & Co.; Burney & Fox to R. Burney; Amos Atkinson to James Wayland.

*Morgan County.*—Fisher Bros. to G. H. Fisher.

## MINE FIRES

At midnight of November 4, 1912, the engine-house and part of the tower at the Star Coal Company's Mine No. 3, Cuba, was destroyed by fire. Origin of the fire unknown.

On the evening of April 20, 1913, the engine, boiler-house and tramway of the Star Coal Company's Mine No. 1, Cuba, Fulton County, was destroyed by fire. Origin of the fire unknown.

## FATAL ACCIDENTS

December 14, 1912, Walter Carson, driver, aged 32 years, married, was instantly killed by mine cars in the Big Creek Coal Company's Mine No. 2, St. David, Fulton County. He leaves a widow and three children.



January 30, 1913, Thomas Samansky, driver, aged 32 years, married, was killed by fall of roof while passing the mouth of a room in the Maplewood Colliery Company's Mine No. 2, Farmington, Fulton County. He leaves a widow and two children.

Respectfully submitted,

JAMES TAYLOR

State Inspector of Mines, Fourth District, Peoria, Ill.

### FATAL CASUALTIES, FOURTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912 Dec. 14	Wallie Carson.....	32	Driver.....	Bryan.....	1	..	1	3	4	Pit cars.....
1913 Jan. 30	Thomas Samansky.....	32	Driver.....	Farmington....	1	..	1	2	3	Falling rock.....
	Total.....				2	..	2	5	7	

### RECAPITULATION OF FATAL CAUALTIES, FOURTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Bryan.....	1	Drivers.....	2	Falling rock.....	1	Big Creek.....	1
Farmington.....	1		2	Pit cars.....	1	Maplewood.....	1
Total.....	2		2		2		2

### NON-FATAL CASUALTIES, FOURTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912 July 1	E. P. Evans.....	52	Cuba.....	1	..	6	5	Leg broken, pit car.....	120
11	Philip Boneriso.....	25	Farmington.....	1	..			Leg injured, falling coal.....	30
16	Chas. Bernsick.....	28	do.....	1	..			Ribs broken, falling roof.....	47
Aug. 6	Thomas Whiting.....	29	Norris.....	1	..			Arm broken, pit car.....	40
22	John Dunnigan.....	22	Farmington.....	1	..			Leg broken, falling roof.....	60
Sept. 13	Alexander McPhee.....	17	Dunfermline.....	1	..			Leg broken, pit cars.....	46
24	Dan Egan.....	25	Cuba.....	1	..			Collar bone broken, falling roof.....	60
Oct. 6	Nat Snyder.....	32	Brereton.....	1	..	1	2	Leg broken, pit car.....	35
18	Samuel Rogers.....	72	Norris.....	1	..	1	2	Body injured, cage.....	199
19	Charles Galick.....	19	Brereton.....	1	..	1	1	Finger cut off, pit car.....	37
Nov. 4	Marion Bliss.....	42	Dunfermline.....	1	..	1	2	Leg broken, falling coal.....	51
21	Wallie C. Argust.....	28	St. David.....	1	..	3	4	Foot broken, falling rock.....	37
1913 Jan. 13	Henry McGhee.....	40	Norris.....	1	..	1	2	Body injured, falling timber.....	70
23	Simon Benalio.....	42	Farmington.....	1	..	2	3	Ankle broken, falling roof.....	45
Feb. 20	John Gepares.....	31	Brereton.....	1	..	1	2	Leg broken, pit car.....	68
21	Peter Anderson.....	56	Dunfermline.....	1	..	3	1	Ribs broken, railroad cars.....	35
Mar. 13	Joe Mitchell.....	30	St. David.....	1	..	2	3	Leg injured, pit car.....	62
June 4	Charles Grunley.....	24	Farmington.....	1	..	1	2	Leg broken, pit car.....	*
	Total.....			11	7	22	28		

\* Not returned to work.

Number injured..... 18

Number not returned, July 1, 1913..... 1

Number returned to work..... 17

Number of days lost by men returned..... 1,042

Average days lost..... 61.29

## RECAPITULATION OF NON-FATAL CASUALTIES, FOURTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Brereton.....	3	Blacksmith....	1	Cage.....	1	Alden.....	1
Cuba.....	2	Cager.....	1	Falling coal....	2	Big Creek.....	5
Dunfermline.....	3	Coupler.....	1	Falling rock....	1	Mapleton.....	5
Farmington.....	5	Drivers.....	5	Falling roof....	4	Monmouth.....	3
Norris.....	3	Laborers.....	2	Falling timber....	1	Norris.....	2
St. David.....	2	Machine runner	1	Pit cars.....	8	Star.....	2
		Mine examiner..	5				
		Miners.....	1	Railroad cars....	1		
		Timberman.....	1				
Total.....	18		18		18		18

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS AND TIME LOST, FOURTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankle broken.....	1	1	—	2	3	45	45.0	5.56
Arm broken.....	1	—	1	—	—	40	40.0	5.56
Body injured.....	2	2	—	2	4	269	134.5	11.11
Collar bone broken.....	1	—	1	—	—	60	60.0	5.56
Finger cut off.....	1	—	1	—	—	37	37.0	5.56
Foot broken.....	1	1	—	3	4	37	37.0	5.56
Legs broken.....	7	5	2	10	13	380	63.3	38.87
Legs injured.....	2	1	1	2	3	92	46.0	11.11
Ribs broken.....	2	1	1	3	1	82	41.0	11.11
Total.....	18	11	7	22	28	1,042	61.3	100.00



## LOCAL MINES

1 Neil Baxter.....	Canton.....	7, 875	4, 100	1, 150	7, 875	326	225	10	2	12	7, 875
2 Westoby Bros. & Gooden.....	Farmington.....	2, 400	4, 100	1, 150	7, 650	285	204	19	3	13	7, 650
3 Riverside Coal Co.....	Ellisville.....	6, 520	6, 520	110	6, 630	161	210	6	2	8	6, 630
4 Jack Walsh.....	Cuba.....	5, 675	5, 675	300	5, 675	250	290	4	1	5	5, 675
5 Joe McLaughlin.....	Canton.....	4, 600	5, 140	300	5, 440	325	250	8	1	9	5, 440
6 Henry V. Onach.....	Lewistown.....	4, 600	4, 600	300	4, 600	200	200	3	1	4	4, 600
7 Elipse Coal Co.....	Astoria.....	3, 600	3, 600	100	3, 600	75	262	6	1	7	3, 600
8 Thomas Preston.....	Canton.....	3, 500	3, 500	100	3, 600	250	180	8	1	8	3, 600
9 Ross Parr.....	Astoria.....	3, 525	3, 525	100	3, 525	185	250	5	1	6	3, 525
10 C. J. Falkenstein.....	Astoria.....	3, 250	3, 250	100	3, 250	180	300	5	1	6	3, 250
11 Jas. Yocum.....	Lewistown.....	3, 141	3, 141	75	3, 216	520	290	7	3	10	3, 216
12 W. D. Landis.....	Canton.....	2, 912	2, 912	300	2, 912	200	182	4	3	7	2, 912
13 W. C. Anderson.....	do.....	2, 800	2, 800	300	2, 800	140	175	6	1	7	2, 800
14 O. H. Standard.....	do.....	2, 400	2, 400	300	2, 400	100	180	3	1	4	2, 400
15 Sv. Hilton.....	Cuba.....	2, 125	2, 125	200	2, 125	115	250	2	1	3	2, 125
16 Frank Walnut.....	Canton.....	1, 900	1, 900	200	1, 900	225	175	6	1	7	1, 900
17 Elmer Delong.....	Fairview.....	1, 800	1, 800	200	1, 800	40	200	2	1	4	1, 800
18 Bath Bros.....	St. David.....	1, 800	1, 800	200	1, 800	95	200	4	1	5	1, 800
19 Jas. Conn.....	Sumnum.....	1, 800	1, 800	200	1, 800	86	215	3	1	4	1, 800
20 E. E. Bishop.....	Cuba.....	1, 750	1, 750	200	1, 750	85	225	4	1	5	1, 750
21 Nicholas Bennett.....	do.....	1, 620	1, 620	200	1, 620	80	280	2	1	3	1, 620
22 W. C. Morgart.....	Canton.....	1, 600	1, 600	200	1, 600	75	260	3	1	3	1, 600
23 John Johnson.....	St. David.....	1, 600	1, 600	200	1, 600	50	210	2	1	3	1, 600
24 Ed. Clarkson.....	Fairview.....	1, 600	1, 600	200	1, 600	75	175	2	1	3	1, 600
25 Frank Allin.....	Canton.....	1, 600	1, 600	200	1, 600	80	210	4	1	5	1, 542
26 O. W. Davis.....	Lewistown.....	1, 542	1, 542	200	1, 542	80	210	4	1	5	1, 542
27 Wm. Hubble.....	Avon.....	1, 500	1, 500	200	1, 500	75	200	3	1	4	1, 500
28 Frank Hubble.....	do.....	1, 500	1, 500	200	1, 500	75	200	3	1	4	1, 500
29 A. J. Gunnett.....	Fairview.....	1, 500	1, 500	200	1, 500	65	110	5	1	6	1, 470
30 Bayley & Bowker.....	Canton.....	1, 470	1, 470	490	1, 470	65	110	5	1	6	1, 470
31 W. B. Lee.....	Ipava.....	1, 425	1, 425	200	1, 425	65	225	4	1	5	1, 425
32 D. P. Row.....	Table Grove.....	1, 275	1, 275	200	1, 275	65	225	4	1	5	1, 275
33 Joseph McLamant.....	do.....	1, 275	1, 275	200	1, 275	65	225	4	1	5	1, 275
34 C. F. Ronden.....	Cuba.....	1, 260	1, 260	200	1, 260	75	200	3	1	4	1, 260
35 Fred Nauneker.....	Marietta.....	1, 250	1, 250	200	1, 250	75	225	4	1	5	1, 250
36 D. G. Copelinger.....	Cuba.....	1, 210	1, 210	200	1, 210	58	220	2	1	2	1, 210
37 Lem Birner.....	Glasford.....	1, 200	1, 200	200	1, 200	60	220	2	1	2	1, 200
38 L. D. Hugins.....	Canton.....	1, 200	1, 200	200	1, 200	60	135	3	1	4	1, 200
39 Wm. Johnson.....	Cuba.....	1, 125	1, 125	200	1, 125	60	200	2	1	2	1, 125
40 Mimmens Bros.....	Breeds.....	1, 120	1, 120	200	1, 120	50	185	2	1	2	1, 120
41 John Whitehead.....	Maple Mills.....	1, 120	1, 120	200	1, 120	50	150	4	1	4	1, 120
42 Chas. Hall.....	Astoria.....	1, 070	1, 070	200	1, 070	50	150	4	1	4	1, 070
43 Joseph Wilson.....	do.....	980	980	200	980	50	200	3	1	4	980
44 Silis Simpson.....	Cuba.....	975	975	200	975	290	290	2	1	2	980
45 Wheatcraft & Son.....	Fairview.....	925	925	200	925	50	175	2	1	2	975
46 E. C. Angel.....	Cuba.....	900	900	200	900	45	225	2	1	2	925
47 Wm. Martin.....	do.....	875	875	200	875	45	175	2	1	3	875
48 John Taylor.....	Glasford.....	860	860	200	860	40	180	2	1	2	860
49 John Stuffedbean.....	Lewistown.....	785	785	200	785	35	175	2	1	2	785

FULTON COUNTY, FOURTH DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Employees			Tons mined		Acci- dents	
			Total			Tons loaded on cars for shipment	Other pur- poses		Average num- ber of min- ers	All other em- ployed	Total	By hand	By machine		
			Mine run	Lump	Other grades										
LOCAL MINES— <i>Concluded</i>															
50	Geo. Stambaugh.....	Sumnum.....	750			750		750	35	175	2				
51	Ed Stanley.....	Maple Mills.....	750			750		750	40	225	1				
52	Lale Sweringer.....	Table Grove.....	750			750		750	180		1				
53	Jess Lindsay.....	Lewistown.....	725			725		725	35	185	2				
54	J. W. Williams.....	Flatt.....	725			725		725	35	200	1				
55	Johnson & Lee.....	Breeds.....	700			700		700	25	125	2				
56	Bartol Zabarcac.....	St. David.....	700			700		700	35	260	2				
57	Chas. Falkwrath.....	Marietta.....	700			700		700	50	175	2				
58	Chas. Taylor.....	Avon.....	700			700		700	10	200	2				
59	Henry Vice.....	Fairview.....	692			692		692	25	160	2				
60	C. W. Dair.....	Banner.....	650			650		650	35	180	1				
61	W. F. McBride.....	Fairview.....	650			650		650	25	180	2				
62	Will A. Sheets.....	London Mills.....	640			640		640	50	250	2				
63	Chas. Bitner.....	Breeds.....	625			625		625	30	100	2				
64	White & Price.....	Canton.....	620			620		620	3	190	2				
65	John Hall.....	do.....	600			600		600	30	150	2				
66	Morris & Wack.....	Norris.....	600			600		600	15	200	2				
67	N. C. Morgan.....	Cuba.....	550			550		550	27	180	1				
68	Geo. Vice.....	Flatt.....	550			550		550	26	165	2				
69	Frank Kruzan.....	Ipava.....	525			525		525	25	225	1				
70	Don. Valentine.....	Sumnum.....	525			525		525	30	200	2				
71	B. F. Gaskell.....	Canton.....	500			500		500			2				
72	Sylvester Wade.....	do.....	500			500		500	30	150	3				
73	Prentiss Weaver.....	Avon.....	500			500		500	80	175	2				
74	E. H. Miller.....	Marietta.....	480			480		480	220	1	1				
75	Will Martin.....	Cuba.....	475			475		475	25	200	2				
76	Furnace & Dimond.....	Astoria.....	450			450		450	100		2				
77	L. Crusan.....	Lewistown.....	425			425		425	25	200	2				
78	W. E. Hornbecker.....	Rapatee.....	420			420		420	25	100	1				
79	Birt Brush.....	Marietta.....	420			420		420	125		2				
80	Petter Clery.....	Middle Grove.....	400			400		400	200		1				
81	B. W. Wright.....	Breeds.....	400			400		400	20	100	2				
82	Frank Foutch.....	Astoria.....	375			375		375	20	150	1				
83	J. G. Hensley.....	Marietta.....	360			360		360		100	3				

84 Dan Bollinger.....	Cuba.....	350	.....	350	17	150	1	.....	350	1	.....	350
85 Robb & Sons.....	Norris.....	350	.....	350	10	50	2	.....	350	2	.....	350
86 L. Clark.....	Lewistown.....	350	.....	350	18	130	2	.....	350	2	.....	350
87 Geo. Velett.....	Marietta.....	320	.....	320	.....	130	2	.....	320	2	.....	320
88 John Daniel.....	do.....	300	.....	300	.....	125	2	.....	300	2	.....	300
89 L. I. Grove.....	Astoria.....	300	.....	300	.....	150	1	.....	300	1	.....	300
90 J. H. Fouch.....	Maple Mills.....	300	.....	300	15	75	2	.....	300	2	.....	300
91 J. R. Collins.....	Lewistown.....	285	.....	285	15	100	1	.....	285	1	.....	285
92 Herbert Wilcoxon.....	do.....	275	.....	275	12	100	1	.....	275	1	.....	275
93 Martin Smith.....	Marietta.....	275	.....	275	100	100	1	.....	275	1	.....	275
94 Peter Westerfield.....	Canton.....	260	.....	260	10	100	1	.....	260	1	.....	260
95 Will Dilts.....	Fairview.....	250	.....	250	10	200	2	.....	250	2	.....	250
96 Richard Hedge.....	Breeds.....	250	.....	250	15	125	2	.....	250	2	.....	250
97 H. A. Wilson.....	do.....	225	.....	225	12	100	1	.....	225	1	.....	225
98 J. E. Johnson.....	Canton.....	200	.....	200	15	125	2	.....	200	2	.....	200
99 Sim Johnson.....	Lewistown.....	175	.....	175	10	125	1	.....	175	1	.....	175
100 Jim Ratcliff.....	Astoria.....	150	.....	150	12	75	1	.....	150	1	.....	150
101 Richard James.....	do.....	125	.....	125	50	125	1	.....	125	1	.....	125
102 J. R. Goodman.....	Lewistown.....	125	.....	125	6	75	1	.....	125	1	.....	125
103 Chas. Cole.....	Avon.....	120	.....	120	6	75	1	.....	120	1	.....	120
104 J. H. Pollett.....	Cuba.....	100	.....	100	3	60	1	.....	100	1	.....	100
105 Harvey Johnson.....	Breeds.....	75	.....	75	4	40	1	.....	75	1	.....	75
106 D. B. King.....	Marietta.....	55	.....	55	3	20	2	.....	55	2	.....	55
107 Joseph Bartley.....	Canton.....	21	.....	21	1	5	1	.....	21	1	.....	21
108 John Dick.....	do.....	18	.....	18	1	3	1	.....	18	1	.....	18
109 C. H. Dean.....	Marietta.....	15	.....	15	.....	15	1	.....	15	1	.....	15
110 Guy Muchoff.....	Flatt.....	14	.....	14	1	3	1	.....	14	1	.....	14
Total.....		40,270	92,710	135,705	6,378	170	285	52	135,705	337	.....	135,705
Total—129 mines.....		284,883	789,276	2,533,079	123,285	175	2,362	1,210	2,154,799	3,572	.....	2,154,799

Mines reported for 1912, 133.  
New mines, 14.  
Abandoned mines, 18.  
Mines in 1913, 129.

HANCOCK COUNTY, FOURTH DISTRICT, 1913

1 Meredith Bros.....	Augusta.....	2,822	.....	2,822	.....	220	9	1	10	2,822	.....	2,822
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Mines reported for 1912, 1.  
Mines in 1913, 1.

## M'DONOUGH COUNTY, FOURTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Employees			Tons mined		Acci- dents		
			Output of mines in tons			Tons loaded on cars for shipment	Other pur- poses		Average num- ber of min- ers	All others em- ployed	Total	By hand	By machine		Killed	Injured
			Mine run	Lump	Other grades											
LOCAL MINES																
1	Colchester Coal Co.	Colchester	5,399	2,808	.....	5,399	.....	5,399	209	14	2	16	5,399	.....	.....	.....
2	John Wilson	do	.....	2,500	110	2,500	.....	2,918	275	9	1	10	2,918	.....	.....	.....
3	C. F. Sweeney	do	.....	2,500	.....	2,500	.....	2,500	275	3	1	4	2,500	.....	.....	.....
4	Ed Zinn	Industry	.....	1,960	.....	1,960	.....	1,960	140	3	1	4	1,960	.....	.....	.....
5	Frank Burdick	do	.....	1,800	.....	1,800	.....	1,800	300	3	1	4	1,800	.....	.....	.....
6	P. M. Jennings	do	.....	1,590	.....	1,590	.....	1,590	300	3	1	3	1,590	.....	.....	.....
7	A. L. Fleming	Colchester	1,210	90	.....	1,210	.....	1,210	150	4	1	5	1,210	.....	.....	.....
8	Wm. Whalen	do	780	.....	.....	780	.....	780	120	3	.....	3	780	.....	.....	.....
9	Wayland Bros.	do	630	.....	.....	630	.....	630	170	2	.....	2	630	.....	.....	.....
10	William Jones	do	600	.....	.....	600	.....	600	120	3	.....	3	600	.....	.....	.....
11	W. L. Stoneking	Birmingham	600	.....	.....	600	.....	600	125	2	.....	2	600	.....	.....	.....
12	W. H. Robinson	Colchester	560	.....	.....	560	.....	560	200	2	1	3	560	.....	.....	.....
13	Bunt Bros	do	400	50	.....	450	.....	450	180	3	.....	3	450	.....	.....	.....
14	J. O. Thompson	Macomb	400	30	.....	430	.....	430	130	3	.....	3	430	.....	.....	.....
15	Elmer Hamilton	Blandinsville	360	60	.....	420	.....	420	200	2	1	3	420	.....	.....	.....
16	Charley Norris	Macomb	400	.....	.....	400	.....	400	240	1	.....	1	400	.....	.....	.....
17	William Webster	Colchester	338	40	.....	398	.....	398	100	3	.....	3	398	.....	.....	.....
18	Harpe & Fenton	do	350	30	.....	380	.....	380	160	2	.....	2	380	.....	.....	.....
19	S. K. Walters	Vermont	350	20	.....	370	.....	370	200	2	.....	2	370	.....	.....	.....
20	J. E. Wilson	Blandinsville	350	10	.....	360	.....	360	150	2	1	3	360	.....	.....	.....
21	Foster & Co.	Colchester	314	40	.....	354	.....	354	40	2	1	3	354	.....	.....	.....
22	James Wayland	do	320	30	.....	350	.....	350	190	3	.....	3	350	.....	.....	.....
23	Isaac Fisher	do	314	20	.....	334	.....	334	75	2	.....	2	334	.....	.....	.....
24	Henry Finch	Macomb	320	.....	.....	320	.....	320	180	2	.....	2	320	.....	.....	.....
25	Elmer Swanson	Colchester	280	.....	24	304	.....	304	230	1	.....	1	304	.....	.....	.....
26	M. McClure	do	300	.....	.....	300	.....	300	140	2	.....	2	300	.....	.....	.....
27	A. Waters	do	300	.....	.....	300	.....	300	120	1	.....	1	300	.....	.....	.....
28	Eli Hillard	do	240	40	.....	280	.....	280	200	2	.....	2	280	.....	.....	.....
29	J. L. Willey	Macomb	280	.....	.....	280	.....	280	130	1	.....	1	280	.....	.....	.....
30	G. E. Dickerson	Colchester	280	.....	.....	280	.....	280	160	1	.....	1	280	.....	.....	.....
31	Fred Curtis	Macomb	275	.....	.....	275	.....	275	100	2	.....	2	275	.....	.....	.....
32	Ralph Burney	Colchester	193	73	.....	266	.....	266	220	1	.....	1	266	.....	.....	.....
33	C. M. Icenagie	Macomb	240	20	.....	260	.....	260	100	3	.....	3	260	.....	.....	.....
34	Lem Williams	Colchester	200	.....	.....	200	.....	200	90	1	.....	1	200	.....	.....	.....
35	Frank Murray	do	160	30	.....	190	.....	190	90	1	.....	1	190	.....	.....	.....



36 Thomas Kipling.....	Colchester...	160	30	190	.....	50	2	.....	2	190	.....
37 Frank Vogles.....	Birmingham.....	160	20	180	.....	80	3	.....	3	180	.....
38 Oscar Swanson.....	Colchester.....	150	.....	150	.....	40	2	.....	2	150	.....
39 C. E. Waddell.....	Tennessee.....	90	20	110	.....	60	2	.....	2	110	.....
40 David E. Ebbens.....	Colchester.....	80	.....	80	.....	80	1	.....	1	80	.....
41 Fox Bros.....	do.....	75	.....	75	.....	70	2	.....	2	75	.....
42 C. C. Tone.....	do.....	65	.....	65	.....	80	1	.....	1	65	.....
43 James Wilson.....	do.....	28	.....	28	.....	30	1	.....	1	28	.....
Total—43 mines.....		5,832	22,420	28,926	.....	146	108	11	119	28,926	.....

Mines reported in 1912, 41.  
New mines, 3.  
Abandoned mines, 1.  
Mines in 1913, 43.

## MORGAN COUNTY, FOURTH DISTRICT, 1913

1 G. H. Fisher.....	Murrayville.....	956	.....	956	.....	181	3	1	4	956	.....
LOCAL MINES											

Mines reported in 1912, 1.  
Mines in 1913, 1.

## SCHUYLER COUNTY, FOURTH DISTRICT, 1913

1 DeWitt & Cummings.....	Rushville.....	2,301	.....	2,301	.....	125	300	9	.....	2,301	.....
2 Bir Humphrey.....	do.....	680	.....	680	.....	32	210	2	.....	680	.....
3 Joe Thompson.....	Bushnell.....	670	.....	670	.....	37	210	2	.....	670	.....
4 Pat Parr.....	Pleasant V'w.....	520	.....	520	.....	12	162	2	.....	520	.....
5 Bates & Seward.....	Rushville.....	464	.....	464	.....	12	90	1	.....	464	.....
6 F. W. Croxton.....	Pleasant V'w.....	435	.....	435	.....	.....	240	1	.....	435	.....
7 Joe Davis.....	Rushville.....	378	.....	378	.....	16	106	2	.....	378	.....
8 John Braham.....	Sheldon Gr.....	360	.....	360	.....	15	180	1	.....	360	.....
9 D. B. King.....	Fredrick.....	160	.....	160	.....	7	63	1	.....	160	.....
10 Geo. Garrison.....	Rushville.....	160	.....	160	.....	6	80	1	.....	160	.....
11 Wheelhouse & Wristen.....	do.....	40	10	70	.....	15	60	2	.....	70	.....
Total—11 mines.....		3,165	3,023	6,198	.....	277	155	24	.....	6,198	.....

Mines reported for 1912, 4.  
New mines, 10.  
Abandoned mines, 3.  
Mines in 1913, 11.

## SCOTT COUNTY, FOURTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Acci- dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur- poses			Average num- ber of min- ers	All others em- ployed	Total	By hand	By machine	Killed	Injured
LOCAL MINES																	
1	Geo. W. Northrop.....	Alsey.....	.....	1,000	.....	1,000	.....	1,000	.....	120	5	.....	5	1,000	.....	.....	.....
2	J. A. Jones.....	Winchester.....	780	780	.....	780	.....	780	.....	250	2	.....	2	780	.....	.....	.....
3	Ben & Josh Hepworth.....	Alsey.....	569	569	.....	569	.....	569	.....	175	2	.....	2	569	.....	.....	.....
4	George Sellers.....	Winchester.....	185	185	.....	185	.....	185	.....	165	1	.....	1	185	.....	.....	.....
5	Pat McGuire.....	Alsey.....	120	120	.....	120	.....	120	.....	60	1	.....	1	120	.....	.....	.....
Total—5 mines.....			2,654	2,654	.....	2,654	.....	2,654	.....	154	11	.....	11	2,654	.....	.....	.....

Mines reported for 1912, 6.

Abandoned mines, 1.

Mines in 1913, 5.

## RECAPITULATION BY COUNTIES, FOURTH DISTRICT, 1913

	Cass	Fulton	Hancock	McDonough	Morgan	Schuyler	Scott	Total
<b>SHIPPING MINES</b>								
Number of mines.....		19						19
Production of different grades in tons—								
Mine run.....		244, 613						244, 613
Lump.....		696, 566						696, 566
Egg.....		715, 762						715, 762
Nut.....		72, 896						72, 896
Pea.....		607, 665						607, 665
Slack.....		59, 872						59, 872
Total.....		2, 397, 374						2, 397, 374
Disposition of output, in tons—								
Loaded on cars for shipment.....		2, 285, 728						2, 285, 728
Other purposes.....		111, 646						111, 646
Kegs of powder used blasting coal.....		116, 907						116, 907
Days of active operation.....		196						196
Employees under ground—								
Miners.....		2, 077						2, 077
Others.....		863						863
Boys.....		41						41
Employees above ground.....		254						254
Total.....		3, 235						3, 235
Tons mined by hand.....		2, 019, 094						2, 019, 094
Tons mined by machine.....		378, 280						378, 280
Number of machines in use.....		31						31
Number of motors in use.....		14						14
Number killed.....		2						2
Number injured.....		18						18
Blasting coal—								
From solid—tons.....		1, 920, 509						1, 920, 509
Undercut—tons.....								
Both methods—tons.....		476, 865						476, 865
<b>LOCAL MINES</b>								
Number of mines.....	1	110	1	43	1	11	5	172
Production of different grades, in tons—								
Mine run.....		40, 270		5, 832		3, 165		49, 267
Lump.....	560	92, 710	2, 822	22, 420	956	3, 023	2, 654	125, 145
Other grades.....		2, 725		674		10		3, 409
Total.....	560	135, 705	2, 822	28, 926	956	6, 198	2, 654	177, 821
Kegs of powder used blasting coal.....		6, 378				277		6, 655
Days of active operation.....	210	170	220	146	181	155	154	163
Number of employees.....	2	337	10	119	4	24	11	507
Tons mined by hand.....	560	135, 705	2, 822	28, 926	956	6, 198	2, 654	177, 821
Tons mined by machine.....								
Number killed.....								
Number injured.....								

Whole number of mines reported for 1912, 186.

Number of new mines opened during year, 28.

Number of mines abandoned during the year, 23.

Whole number of mines reported for 1913, 191.

## FIFTH INSPECTION DISTRICT—1913

COUNTIES—CHRISTIAN, MACON, MOULTRIE, SHELBY, VERMILION.  
W. S. BURRIS, *Inspector*, DANVILLE

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Christian, Macon, Moultrie, Shelby, and Vermilion.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	5
Number of shipping mines.....	36
Number of local mines.....	31
Number of new or re-opened mines.....	13
Number of closed or abandoned mines.....	17
Number of miners.....	3,627
Others underground, men.....	2,704
Boys underground.....	125
Boys above ground.....	7
Others above ground.....	633
Total number of employees.....	7,096
Total tons of coal produced.....	5,580,378
Days of active operation, all mines.....	188
Kegs of powder used for blasting coal.....	141,877
Tons of coal shipped.....	4,782,065
Tons supplied to locomotives.....	123,114
Tons sold to local trade.....	281,665
Tons consumed and wasted at mines.....	393,534
Number of fatal accidents.....	24
Number of non-fatal accidents.....	99
Number of employees to each fatal accident.....	296
Number of employees to each non-fatal accident.....	72
Tons of coal produced to each fatal accident.....	232,516
Tons of coal produced to each non-fatal accident.....	56,367
Ratio of fatal accidents per 1,000 employees.....	3.38

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Christian.....	1,346,191	1,481,737	135,546	.....
Macon.....	271,626	279,732	8,106	.....
Moultrie.....	54,162	105,280	51,118	.....
Shelby.....	128,544	202,968	74,424	.....
Vermilion.....	3,374,443	3,510,661	136,218	.....
Total.....	5,174,966	5,580,378	405,412	.....
Net.....	.....	.....	405,412	.....

## NEW MINES

The Illinois Midland Coal Company has put in operation mine No. 7, near Taylorville, Christian County.

C. W. Vandever's mine, Edinburg, Christian County, is changed from a local to a shipping mine.

William Baum has opened a new mine near Shelbyville, Shelby County, which will be known as No. 4.

The following are also classed as new mines, all being in Vermillion County:

Black Diamond Mining Co., Danville Consumers' Coal Co., Gray Coal Co., Charles E. Lind, B. E. Spangler, Moran & Tolbert, Danville; John T. James, Westville; Bryant and Jump, Georgetown; Geno Gustic, Catlin; Woodward Coal Co., Oakwood.

## ABANDONED MINES

The following mines are not reported this year:

Domas & Domas and William Baum's No. 1 mine, Shelbyville, Shelby County.

*Vermillion County.*—Fairmount Coal Co., Fairmount; Bushon Bros. No. 1, Muncie; Traer Coal Co. No. 1, John Olson, James Thomas, Oscar Ellis, House & Ritter, Ed. Lewis, Charles High, Danville; J. W. Ewen, Grape Creek; John Mitchell, Oakwood; William Shepard, Catlin; John Ashby, Westville.

## CHANGE OF NAME

The names of these mines have been changed as follows: Century Coal Company to Tower Hill Coal Co., Vanderpool & Graburn to Vanderpool & Smith. Both of these mines are in Shelby County. W. A. Cole to Fannie Cole, Vermillion County.

## FATAL ACCIDENTS

August 3, 1912, William Kountz, driver, aged 42 years, single, was killed by pit cars in the Danville Collieries Company's mine, Danville, Vermillion County.

August 5, 1912, Samuel Halbert, miner, aged 66 years, married, was killed by a fall of coal in the Penwell Coal Mining Company's mine, Pana, Christian County. He leaves a widow and three children.

August 12, 1912, John Fusey, miner, aged 31 years, single, employed at the Bunsen Coal Company's Little Vermillion mine, Westville, Vermillion County, was killed by falling rock.

September 29, 1912, Adolph Youmiski, driver, aged 26 years, married, was killed in the No. 4 mine of the Bunsen Coal Co., Westville, Vermillion County, by pit cars. He leaves a widow.

October 2, 1912, Evan Griffith, miner, aged 25 years, single, was killed by pit cars in the Springfield Coal Company's No. 6 mine, Taylorville, Christian County.

October 12, 1912, Lou Hamon, driver, aged 28 years, married, employed by the Blue Mound Coal Co., Blue Mound, Macon County, was killed by pit cars. He leaves a widow and three children.

November 20, 1912, John Fratig, miner, aged 46 years, married, was killed by a fall of coal in the Bunsen Coal Company's No. 4 mine, Westville, Vermillion County. He leaves a widow and seven children.

November 30, 1912, Joe Nannie, miner, aged 35 years, married, was killed by falling slate in the Moweaqua Coal and Manufacturing Company's mine, Moweaqua, Shelby County. He leaves a widow and three children.

December 4, 1912, John Hall, miner, aged 22 years, single, employed in the Springfield Coal Company's No. 6 mine, Taylorville, Christian County was killed by falling rock.

December 10, 1912, Rudolph Oehler, laborer, aged 25 years, single, fell down the shaft of the No. 1 mine of the Pana Coal Company, Pana, Christian County, and was killed.

December 23, 1912, Thomas Conley, miner, aged 37 years, married, was killed by a fall of rock in the Bunsen Coal Company's Mine No. 4, Westville, Vermilion County. He leaves a widow and one child.

February 6, 1913, Steve Sterekis, miner, aged 30 years, married, employed in the Little Vermilion mine of the Bunsen Coal Co., Westville, Vermilion County, was killed by falling rock. He leaves a widow.

February 15, 1913, Willie Finnegan, Jr., driver, aged 20 years, single, was injured by pit cars in Assumption Coal Mining Company's mine, Assumption, Christian County, and died a few months later.

February 25, 1913, Gernet C. Geckler, trapper, aged 17 years, single, was killed by pit cars in the Bunsen Coal Company's Little Vermilion mine, Westville, Vermilion County.

March 14, 1913, Peter Naviski, miner, aged 45 years, married, was killed in the Little Vermilion mine of the Bunsen Coal Company, Westville, Vermilion County, by falling rock. He leaves a widow and three children.

March 22, 1913, Andy Mulka, miner, aged 36 years, married, employed in the Bunsen Coal Company's Little Vermilion mine, Westville, Vermilion County, was killed by a fall of rock. He leaves a widow and five children.

March 26, 1913, John Pruscaviza, miner, aged 71 years, married, was killed by falling coal in the Pana Coal Company's No. 2 mine, Pana, Christian County. He leaves a widow and one child.

March 27, 1913, Peter Ruskus, trackman, aged 25 years, single, was killed by pit cars in the Bunsen Coal Company's Little Vermilion mine, Westville, Vermilion County.

March 28, 1913, W. A. Hausen, laborer, aged 30 years, married, was killed by falling coal in the Penwell Coal Mining Company's mine, Pana, Christian County. He leaves a widow and two children.

May 5, 1913, Claud Ingram, machine helper, aged 18 years, single, employed in the Bunsen Coal Company's No. 2 mine, Westville, Vermilion County, was killed by falling slate.

May 9, 1913, George Brimley, machine helper, aged 30 years, single, was killed by a fall of coal in the Bunsen Coal Company's No. 3 mine, Westville, Vermilion County.

May 14, 1913, Tom Cebulski, loader, aged 48 years, married, employed in the Bunsen Coal Company's Little Vermilion mine, Westville, Vermilion County, was killed by falling rock. He leaves a widow and seven children.

May 21, 1913, John Bonosy, miner, aged 28 years, single, was killed by a fall of rock in the No. 4 mine of the Bunsen Coal Co., Westville, Vermilion County.

June 30, 1913, George Krushna, loader, aged 30 years, married, employed in the Bunsen Coal Company's Little Vermilion mine, Westville, Vermilion County, was killed by a fall of rock. He leaves a widow and three children.

Respectfully submitted,

W. S. BURRIS

*State Inspector of Mines, Fifth District, Danville, Ill.*

FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Aug. 3	Wm. Kountz.....	42	Driver.....	Catlin.....	1	1	3	4		Pit cars.....
5	Samuel Halbert.....	66	Miner.....	Pana.....	1	1	3	4		Falling coal.....
12	John Fusey.....	31	do.....	Westville.....	1	1	1	1		Falling rock.....
Sept. 29	Adolph Youmiski.....	26	Driver.....	do.....	1	1	1	1		Pit cars.....
Oct. 2	Evan Griffith.....	25	Miner.....	Taylorville.....	1	1	1	1		do.....
12	Lou Hamon.....	28	Driver.....	Blue Mound.....	1	1	3	4		do.....
Nov. 20	John Frutig.....	46	Miner.....	Westville.....	1	1	7	8		Falling coal.....
30	Joe Nannie.....	35	do.....	Moweaqua.....	1	1	3	4		Falling slate.....
Dec. 4	John Hall.....	22	do.....	Taylorville.....	1	1	1	1		Falling rock.....
10	Rudolph Oehler.....	25	Laborer.....	Pana.....	1	1	1	1		Fell down shaft.....
23	Thomas Conley.....	37	Miner.....	Central Park.....	1	1	1	2		Falling rock.....

FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1913										
Feb. 6	Steve Sterekis.....	30	Miner.....	Georgetown.....	1	1	1			Falling rock.....
*15	Willie Finnegan, Jr.....	20	Driver.....	Assumption.....	1	1				Pit cars.....
25	Gernet C. Geckler.....	17	Trapper.....	Georgetown.....	1	1				do.....
Mar. 14	Peter Naviski.....	45	Miner.....	Westville.....	1	1	3	4		Falling rock.....
22	Andy Mulka.....	36	do.....	Georgetown.....	1	1	5	6		Falling coal.....
26	John Pruscaviza.....	71	do.....	Pana.....	1	1	1	2		do.....
27	Peter Ruskas.....	25	Trackman.....	Georgetown.....	1	1				Pit cars.....
28	W. A. Hausen.....	30	Laborer.....	Pana.....	1	1	2	3		Falling coal.....
May 5	Claud Ingram.....	18	Machine helper.....	Tilton.....	1	1				Falling slate.....
9	George Brimley.....	30	do.....	Danville.....	1	1				Falling coal.....
14	Tom Cebulski.....	48	Loader.....	Georgetown.....	1	1	7	6		Falling rock.....
21	John Bonosy.....	28	Miner.....	Westville.....	1	1				do.....
June 30	Geo. Krushna.....	30	Loader.....	do.....	1	1	3	4		do.....
	Total.....				13	11	13	38	49	

\* Injured on this date and died a few months later.

## RECAPITULATION OF FATAL CASUALTIES, FIFTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Collery	No.
Assumption.....	1	Drivers.....	4	Falling coal.....	6	Assumpt on.....	1
Blue Mound.....	1	Laborers.....	2	Falling rock.....	8	Blue Mound.....	1
Catlin.....	1	Loaders.....	2	Falling slate.....	2	Bunsen.....	14
Central Park.....	1	Machine helpers.....	2	Fell down shaft.....	1	Danville Col.....	1
Danville.....	1	Miners.....	12	Pit cars.....	7	Moweaqua.....	1
Georgetown.....	5	Trackman.....	1			Pana.....	2
Moweaqua.....	1	Trapper.....	1			Penwell.....	2
Pana.....	4					Springfield.....	2
Taylorville.....	2						
Tilton.....	1						
Westville.....	6						
Total.....	24		24		24		24

## NON-FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accidents	Time lost—days
1912									
July 5	Joe Moleski.....	50	Grape Creek.....	1	3	4		Leg injured, falling coal.....	60
16	Chas. Rigdon.....	51	Westville.....	1	5	4		Hand injured, falling rock.....	34
18	Chas. Katanski.....	23	do.....	1				Back injured, falling rock.....	32
Aug. 2	Chas. Sutton.....	44	Grape Creek.....	1		1		Legs injured, falling coal.....	59
23	Kasnier Rouktis.....	48	Westville.....	1	4	5		Foot injured, falling rock.....	146
23	John Andrews.....	34	Danville.....	1	1			Leg broken, machine.....	115
23	Ed Morrison.....	44	Grape Creek.....	1	4	5		Leg injured, machine.....	31
24	Tony Poloski.....	42	Westville.....	1	3	4		Ankle broken, falling rock.....	105
26	Frank Kosmas.....	28	do.....	1	3	4		Finger broken, falling rock.....	35
29	Emanuel Kinsey.....	55	Grape Creek.....	1	1	2		Leg injured, falling rock.....	40
Sept. 1	John Witka.....	34	Westville.....	1	1			Back injured, falling rock.....	50
	Peter Karlaitio.....	49	do.....	1	5	6		do.....	32
	Frank Blass.....	24	do.....	1	2	3		Foot injured, falling rock.....	51
	Joe Rumpus.....	50	do.....	1	1	2		do.....	45
	Ed Walstenholm.....	42	do.....	1				Arm broken, falling rock.....	59
	John Kromas.....	35	do.....	1	4	5		do.....	176
	John Heslen.....	60	do.....	1				Ribs broken, pit car.....	43



## NON-FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Sept. 24	W. H. Pate	58	Tilton	1		4	5	Arm broken, falling timber	66
25	Marion Brown	60	Westville		1			Toes injured, falling rock	52
27	John Atwood	28	Danville		1			Body injured, falling rock	97
28	Frank Smith	31	Georgetown	1		2	3	Leg burned, hot water	57
30	L. W. Houser	38	Danville	1			1	Shoulder broken, falling rock	34
Oct. 5	Oliver Wilson	25	Westville		1			Leg injured, kicked by mule	34
12	Paul Mushowski	34	do		1			Shoulder injured, falling rock	112
17	Alex Andrew	37	do	1		2	3	Ribs broken, falling coal	44
17	Frank Kosmas	27	do	1		3	4	Body injured, pit car	161
19	Andy Mawrisitis	26	Georgetown	1		2	3	Ankle injured, falling rock	36
23	Mike Gregolis	24	Westville		1			Ribs broken, pit car	41
Nov. 13	Fritz Everitt	62	Danville	1		5	1	Body injured, pit car	200
12	Dom. Zavistowakus	38	Westville	1		4	5	Foot injured, falling rock	72
13	Joe Pope	55	Danville	1		2	3	Ankle broken, falling rock	72
14	Jasper Abromatis	16	Westville		1			Arm broken, pit car	32
14	W. H. Daugherty	46	do	1		2	3	Toe injured, falling rock	94
18	Bruce Polakus	17	do		1			Fingers injured, pit car	42
19	Wm. Blanchard	30	Danville		1		1	Back injured, falling rock	200
Dec. 22	Clarence Watts	23	Westville		1			Eye destroyed, flying coal	90
12	L. Bernerd	31	Stonington	1		1	3	Body burned, gas explosion	48
12	Dessie Walelet	31	do	1		3	4	do	48
21	John Boys	22	do		1			Finger injured, pit car	39
23	Walter Posweicz	37	Westville	1		7	6	Foot broken, falling rock	40
26	Lounie Lalle	33	Taylorville		1			Leg broken, falling rock	33
28	S. A. Smoot	53	Georgetown	1		1	1	Rib broken, falling rock	40
1913									
Jan. 7	V. Fleming		Stonington		1			Body injured, kicked by mule	42
10	Wm. Poplauses	32	Westville	1		3	4	Leg broken, falling rock	200
13	O. Cekefitz	22	Taylorville		1			Body injured, pit car	44
16	Arthur Mahieu	28	Westville	1		1	2	Body injured, falling rock	100
17	Angelo Berri	47	do	1		3	4	Legs injured, falling rock	39
17	John Lauer	50	Assumption	1		5	6	Collar-bone broken, falling rock	56
17	Wm. Torney	23	Stonington	1				Foot injured, mule	40
18	Scott Goss	24	Georgetown		1	3	4	Leg broken, falling rock	69
18	Louie Reano	25	Westville	1		2	3	Back injured, falling rock	42
20	Stanley Eidis	30	do	1		1	2	Ankle injured, falling rock	35
22	George Grant	34	Danville	1			1	Head injured, falling rock	125
25	Joe Vick	35	Grape Creek	1		6	7	Back injured, falling rock	96
30	Albert Orlea	34	Westville	1		3	4	Leg injured, machine	55
Feb. 3	George Snyder	36	do	1		4	5	Arm broken, falling rock	67
12	Andy Krinock	37	do	1		2	3	Rib broken, falling rock	34
12	Louis Jones	20	do		1			Fingers injured, pit car	41
12	Ed Morrison	45	Grape Creek	1		4	5	Toe broken, falling rock	49
14	Frank Bennett	41	Danville	1		1	2	Foot broken, falling coal	30
18	Jas. McAvoy	23	Stonington		1			Leg injured, falling coal	38
21	Frank Barton	55	Westville	1			1	Finger broken, falling coal	36
27	Oscar Shaffer	30	do		1	1	2	Head injured, falling rock	48
28	Joe Bohenek	29	Georgetown		1			Rib broken, falling rock	88
Mar. 4	Kayton Cheder	44	Westville	1		7	8	Nose broken, falling rock	74
11	Taylor Evans	24	Stonington		1			Body injured, pit car	47
13	Oscar Launville	43	do	1		3	5	Body injured, falling timber	45
14	Harry Dunham	28	Westville	1		1		Foot injured, falling coal	36
14	Louis Branch	32	Danville		1	1	2	Leg injured, pit car	48
18	Jake Vansient	31	Taylorville		1			Fingers injured, pit car	40
25	Burg E. Barr	37	Danville	1		6	7	Arm broken, falling rock	125
28	Frank Leach	34	Stonington	1				Foot injured, pit car	31
Apr. 4	A. B. Keele	38	Danville	1		5	6	Arm broken, fell down	42
7	John Delmorbro	23	Taylorville		1			Leg injured, pit car	51
10	C. Maples	48	Stonington	1		9	11	Shoulder injured, pit car	45
10	Peter Popovich	35	Westville		1			Leg injured, pit car	60
11	Thos. Arthur	43	Danville		1			Eye injured, flying coal	30
18	Joe Zielinski	47	Georgetown	1		7	8	Leg broken, falling coal	90
19	D. C. Wills	50	Danville	1		11	6	Leg injured, falling rock	32
19	Wm. Varnagis	45	Georgetown	1		4	5	Finger broken, falling coal	53
21	John F. Scott	55	Tilton	1		3	4	Eye injured, falling coal	58
28	Alex Sebeckis	38	Westville	1		6	7	Leg broken, falling rock	90
28	Silas Nevarre	44	Georgetown	1		1	2	Head injured, falling timber	70
May 5	Willis Ingram	42	Tilton	1		4	5	Ribs broken, falling rock	42
9	Frank Walden	46	Danville	1		3	4	Leg broken, motor	75
13	Chas. Micklo	37	Westville	1		2	3	Toes broken, pit car	48
17	Tony Poliski	42	do	1		3	4	Shoulder injured, pit car	56
18	Egust Loughen	45	do	1			1	Back injured, falling rock	134
20	Chas. Eggerman	34	Pana	1		3	4	Back injured, falling coal	49

NON-FATAL CASUALTIES, FIFTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
May 21	Hen Hatfield .....	24	Westville .....	1	.....	.....	.....	Leg injured, pit car .....	75
23	Ahl Anderson .....	54	Danville .....	1	.....	.....	.....	Leg injured, falling rock .....	50
25	Frank Romain .....	45	Westville .....	1	.....	.....	.....	Shoulder injured, falling rock .....	128
27	Adrian Dentroneux .....	44	do. ....	1	.....	.....	.....	Leg broken, falling coal .....	90
27	Smith Moody .....	18	Georgetown .....	1	.....	.....	.....	Foot injured, falling coal .....	40
June 20	Frank Rabbie .....	24	Westville .....	1	.....	.....	.....	Body injured, falling coal .....	90
21	A. Stonehouse .....	59	Taylorville .....	1	.....	.....	.....	Body injured, falling slate .....	65
23	Mike Shintos .....	53	Westville .....	1	.....	3	3	Rib broken, falling rock .....	30
26	Henry Rippon .....	41	do. ....	1	.....	8	9	Head injured, falling rock .....	100
27	Peter Novak .....	34	Georgetown .....	1	.....	2	3	Wrist broken, falling rock .....	30
	Total .....			66	33	203	253		

Total number of men injured..... 99      Average days lost..... 65.01  
Time lost—days..... 6,440

## RECAPITULATION OF NON-FATAL CASUALTIES, FIFTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Assumption .....	1	Blacksmith .....	1	Falling coal .....	14	Assumption .....	1
Danville .....	15	Cagers .....	3	Falling rock .....	49	Bunsen .....	72
Georgetown .....	10	Coupler .....	1	Falling slate .....	1	Christian Co. ....	4
Grape Creek .....	6	Drivers .....	13	Falling timber .....	3	Dering .....	10
Pana .....	1	Laborers .....	6	Fell down .....	1	Pana .....	1
Stonington .....	10	Machine helper .....	1	Flying coal .....	2	Stonington .....	11
Taylorville .....	5	Machine runners .....	5	Gas explosion .....	2		
Tilton .....	3	Miners .....	58	Hot water .....	1		
Westville .....	48	Spraggers .....	2	Machine .....	3		
		Timbermen .....	5	Motor .....	1		
		Trackmen .....	3	Mule, kicked by .....	3		
		Trip rider .....	1	Pit cars .....	19		
Total .....	99		99		99		99

RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES,  
CONJUGAL RELATIONS AND TIME LOST, FIFTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankles broken.....	2	2	.....	5	7	177	88.5	2.02
Ankles injured.....	2	2	.....	3	5	71	35.5	2.02
Arms broken.....	7	5	2	23	28	567	81.0	7.07
Backs injured.....	8	6	2	16	22	635	79.4	8.08
Bodies burned.....	2	2	.....	4	7	96	48.0	2.02
Bodies injured.....	10	4	6	12	12	891	89.1	10.10
Collar-bone broken.....	1	1	.....	5	6	56	56.0	1.01
Eye destroyed.....	1	.....	1	.....	.....	90	90.0	1.01
Eyes injured.....	2	1	1	3	4	88	44.0	2.02
Feet broken.....	2	2	.....	8	8	70	35.0	2.02
Feet injured.....	8	6	2	11	15	461	57.6	8.08
Fingers broken.....	3	3	.....	7	10	124	41.3	3.03
Fingers injured.....	4	.....	4	.....	.....	162	40.5	4.04
Hands injured.....	1	1	.....	5	4	34	34.0	1.01
Heads injured.....	4	4	.....	10	14	343	85.8	4.04
Legs broken.....	8	5	3	22	27	762	95.3	8.08
Legs burned.....	1	1	.....	2	3	57	57.0	1.01
Legs injured.....	14	8	6	26	28	672	48.0	14.15
Nose broken.....	1	1	.....	7	8	74	74.0	1.01
Ribs broken.....	8	5	3	12	15	362	45.3	8.08
Shoulder broken.....	1	1	.....	.....	1	34	34.0	1.01
Shoulders injured.....	4	2	2	12	15	341	85.3	4.04
Toes broken.....	2	2	.....	6	8	97	48.5	2.02
Toes injured.....	2	1	1	2	3	146	73.0	2.02
Wrist broken.....	1	1	.....	2	3	30	30.0	1.01
Total.....	99	66	33	203	253	6,440	65.0	100.00

CHRISTIAN COUNTY, FIFTH DISTRICT, 1913

Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accidents			
		Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other purposes	Average number of miners	All others employed	Total		By hand	By machine	Killed
SHIPPING MINES																
1	Christian Co. Coal Co.	Taylorville...	22,835	197,254	121,023	341,112	316,227	24,885	12,509	165	380	341,112	.....	.....	4	
2	Springfield C. M. Co., No. 6.	do.	258	153,143	86,846	240,247	162,534	77,613	8,837	211	91	259	240,247	.....	2	
3	Stonington Coal Co.	do.	21,462	152,354	66,122	239,938	223,069	16,869	2,049	186	275	275	239,938	.....	.....	
4	Penwell Coal Co.	Pana.	42,308	48,118	107,201	197,627	151,145	46,482	2,047	137	190	73	197,627	.....	.....	
5	Pana Coal Co., No. 1.	do.	34,174	47,729	84,661	166,564	48,858	117,706	1,477	159	165	61	166,564	.....	1	
6	Smith-Lohr C. M. Co.	do.	4,967	30,284	65,052	100,303	84,737	15,566	794	92	57	226	100,303	.....	.....	
7	Ill. Midland Coal Co., No. 7.	do.	74,824	.....	.....	74,824	70,785	4,089	1,515	269	93	93	74,825	.....	.....	
8	Assumption C. & M. Co.	Taylorville.	37,730	.....	36,153	73,883	53,343	20,540	296	227	111	59	73,883	.....	1	
9	Pana Coal Co., No. 2.	Assumption.	855	12,567	24,734	38,156	35,739	2,417	226	62	75	33	38,156	.....	1	
10	C. W. Vanderveer, Greenwood.	Edinburg.	.....	5,000	4,083	9,083	1,300	7,783	504	139	6	14	9,083	.....	.....	
Total—10 mines.			239,413	646,449	595,875	1,481,737	1,147,837	333,900	30,254	165	898	1,128	2,026	1,166,974	314,763	7

Mines reported for 1912, 9.  
New mines, 1.  
Mines for 1913, 10.

MACON COUNTY, FIFTH DISTRICT, 1913

SHIPPING MINES																
1	Manufacturers & Con. C. Co., M & C.	Decatur.....	11,595	44,797	48,073	104,465	60,088	44,377	.....	220	150	42	104,465	.....	.....	.....
2	Decatur Coal Co., No. 2.	do.	21,659	37,897	9,474	69,030	4,053	64,977	.....	100	37	137	69,030	.....	.....	.....
3	Blue Mound Coal Co., No. 1.	Blue Mound.	56,860	.....	.....	56,860	54,180	2,680	1,721	121	60	30	56,860	.....	1	.....
4	Decatur Coal Co., Niantic.	Niantic.	168	20,400	18,309	38,577	30,409	8,468	2,126	128	23	69	38,577	.....	.....	.....
5	Decatur Coal Co., No. 1.	Decatur.	2,920	6,012	1,568	10,500	1,738	8,762	.....	120	38	22	10,500	.....	.....	.....
Total—5 mines.			93,202	109,106	77,424	279,732	150,468	129,264	3,847	154	394	154	279,732	.....	1	.....

Mines reported for 1912, 5.  
Mines reported for 1913, 5.

## MOULTRIE COUNTY, FIFTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes			Average number of miners	All others employed	Total	By hand	By machine	Killed	Injured
SHIPPING MINES																	
1	Lovington Coal Mining Co., No. 1.....	Lovington...	2, 513	58, 997	43, 770	105, 280	97, 565	7, 715	792	224	81	28	109	105, 280			
	Total—1 mine.....		2, 513	58, 997	43, 770	105, 280	97, 565	7, 715	792	224	81	28	109	105, 280			

Mines reported, 1912, 1.  
Mines reported, 1913, 1.

## SHELBY COUNTY, FIFTH DISTRICT, 1913

SHIPPING MINES																	
1	Tower Hill Coal Co., Tower Hill.....	Tower Hill...	2, 342	32, 080	111, 334	145, 756	129, 009	16, 747		191	160	50	210	145, 756			
2	Moweaqua C. M. & Mfg. Co., No. 1....	Moweaqua...	40	24, 163	25, 610	49, 813	35, 544	14, 269	900	125	56	47	103		49, 813	1	
	Total.....		2, 382	56, 243	136, 944	195, 569	164, 553	31, 016	900	138	216	97	314	145, 756	49, 813	1	
LOCAL MINES																	
1	Wm. Baum, No. 3.....	Shelbyville		2, 400		2, 400		2, 400		240	14	2	16	2, 400			
2	Vanderpool and Smith.....	do.		2, 209		2, 209		2, 209		260	14	1	15	2, 209			
3	Wm. Baum, No. 2.....	do.		2, 200		2, 200		2, 200		130	8	2	10	2, 200			
4	B. F. Stretch.....	do.		500		500		500		250	8	1	9	500			
5	Wm. Baum, No. 4.....	do.		30		30		30		30	6	2	8	30			
	Total.....			7, 399		7, 399		7, 399		182	50	8	58	7, 399			
	Total—7 mines.....		2, 382	63, 642	136, 944	202, 968	164, 553	38, 415	900	175	266	105	371	153, 155	49, 813	1	

Mines reported for 1912, 8.  
New mines, 1.  
Abandoned mines, 2.  
Mines in 1913, 7.

VERMILION COUNTY, FIFTH DISTRICT, 1913

SHIPPING MINES																
1	Bunson Coal Co., Vermilion	248,143	236,278	307,894	792,315	779,865	12,450	17,271	282	165	544	709	236,716	555,599	8	22
2	Bunson Coal Co., No. 4	105,512	384,052	179,743	669,307	660,307	9,000	26,317	277	448	217	665	669,307	287,355	4	22
3	Bunson Coal Co., No. 2	254,445	102,406	61,843	418,694	405,443	13,251	9,238	282	111	821	431	131,309	306,145	1	10
4	Bunson Coal Co., No. 3	334,721	19,095	32,494	386,310	369,280	17,030	7,089	274	63	315	378	80,165	306,145	1	18
5	Dering Coal Co., Dering No. 2	68,723	79,404	60,016	386,143	203,643	4,500	7,772	163	255	95	350	208,143	306,145	3	4
6	Dering Coal Co., Dering No. 4	54,513	73,991	36,214	164,720	100,812	3,908	6,943	165	185	75	260	164,720	306,145	4	3
7	Dering Coal Co., Dering No. 3	140,373	4,055	144,428	140,373	4,055	5,607	133	269	65	33	365	144,428	306,145	3	3
8	Electric Coal Co., Electric	140,275	116,153	116,428	75,828	40,600	5,000	299	65	33	98	116,428	306,145	3	3	
9	Danville Coal Co., Catlin	13,920	70,454	28,364	112,738	111,789	9,949	5,121	212	83	58	141	112,738	306,145	1	1
10	Mission Mining Co., Oakwood	62,240	62,240	62,240	62,240	62,240	180	2,400	183	3	43	62,240	306,145	1	1	
11	Missionfield Coal Co., No. 3	175	28,842	19,227	48,244	48,064	180	2,400	183	3	51	54	48,244	306,145	1	1
12	Tilton Coal Co., Comet	46,448	46,448	46,448	46,448	46,448	624	2,215	172	61	18	79	46,448	306,145	1	1
13	Black Diamond Coal Co., No. 1	45,283	45,283	45,283	45,283	45,283	1,365	209	35	19	54	45	283	306,145	1	1
14	Missionfield Coal Co., No. 2	34,105	100	34,105	34,105	100	1,080	223	30	14	44	34	205	306,145	1	1
15	Black Diamond Mining Co., B-D	27,482	27,482	27,482	27,482	27,482	1,075	221	40	10	50	27	482	306,145	1	1
16	Sharon Coal & Brick Co.	4,443	12,908	9,727	27,080	11,851	15,229	912	174	31	9	40	27,080	306,145	1	1
17	Danville Consumers Coal Co.	10,924	6,142	4,782	21,848	21,848	18,710	120	148	102	40	30	21,848	306,145	1	1
18	Gray Coal Co., Gray	17,401	17,401	1,309	18,710	17,605	1,105	100	176	210	1,844	3,831	18,710	306,145	1	1
Total		1,452,729	1,030,973	860,921	3,344,623	3,221,642	122,981	100,176	210	1,844	1,987	3,831	2,195,494	1,149,129	15	82
LOCAL MINES																
1	Contract Mining Co.	72,895	72,895	72,895	72,895	72,895	72,895	2,300	307	36	24	60	72,895	72,895	1	1
2	Mauck and Spangler	12,433	12,433	12,433	12,433	12,433	9,000	355	250	8	1	9	12,433	72,895	1	1
3	J. Mauck and Son	9,000	9,000	9,000	9,000	9,000	8,150	400	163	8	2	10	9,000	72,895	1	1
4	Joe Mauck	8,150	8,150	8,150	8,150	8,150	8,000	265	285	5	7	16	8,150	72,895	1	1
5	Chas. E. Lind	8,000	2,400	2,400	8,000	8,000	8,000	375	235	5	4	9	8,000	72,895	1	1
6	Wm. C. Shaler	8,000	2,400	2,400	8,000	8,000	6,890	204	230	4	3	12	8,000	72,895	1	1
7	W. J. Watkins	6,200	2,630	1,260	6,200	6,200	6,200	220	300	4	3	7	6,200	72,895	1	1
8	B. E. Spangler	6,200	4,000	2,000	6,200	6,000	5,000	200	200	8	3	11	6,000	72,895	1	1
9	W. F. Crawford & Son	5,000	4,000	2,000	5,000	5,000	3,000	200	200	8	3	6	5,000	72,895	1	1
10	John Alldridge	5,000	4,000	2,000	5,000	5,000	3,000	100	190	5	2	7	4,400	72,895	1	1
11	Bushong and Walker	3,300	3,300	1,100	3,000	3,000	3,000	102	100	5	1	4	3,000	72,895	1	1
12	H. Wonderlin	2,000	1,000	500	2,560	2,560	2,560	50	150	3	1	4	2,560	72,895	1	1
13	S. M. Hodges and Son	2,560	1,000	500	2,490	2,490	2,490	112	200	5	2	7	2,490	72,895	1	1
14	Geo. H. Haskins	2,490	2,490	2,490	1,500	1,500	1,500	40	170	3	1	4	1,500	72,895	1	1
15	Fannie Cole	1,500	1,500	1,500	1,500	1,500	1,500	50	200	2	2	4	1,500	72,895	1	1
16	Moran and Tolbert	1,500	1,500	1,500	1,320	1,320	1,320	35	175	2	1	3	1,320	72,895	1	1
17	J. P. Pearson	825	825	675	650	650	650	20	175	5	5	5	650	72,895	1	1
18	John T. James	1,320	1,320	1,320	650	650	650	32	175	2	1	2	650	72,895	1	1
19	Bryant and Jumps	650	650	650	650	650	650	25	200	1	1	2	650	72,895	1	1
20	Ogden and Son	650	650	650	650	650	650	12	180	1	1	1	600	72,895	1	1
21	Geno. Gustie	600	600	600	600	600	600	38	200	2	2	2	600	72,895	1	1
22	Anthony Wilson	600	600	600	600	600	600	38	200	2	2	2	600	72,895	1	1
23	C. C. Moulton Coal Co.	600	600	600	600	600	600	38	200	2	2	2	600	72,895	1	1

VERMILION COUNTY, FIFTH DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Acci- dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur- poses			Average num- ber of min- ers	All others em- ployed	Total	By hand	By machine	Killed	Injured
LOCAL MINES— <i>Concluded</i>																	
24	Woodard Coal Co.	Oakwood	200	.....	.....	200	.....	200	15	200	2	.....	2	200	.....	.....	
25	Lovenze Baldueki	Farmount	200	.....	.....	200	.....	200	10	60	3	1	4	200	.....	.....	
26	Crawford Bros.	do.	150	.....	.....	150	.....	150	8	60	2	1	3	150	.....	.....	
	Total		142,948	15,155	7,935	166,038	.....	166,038	5,908	191	144	67	211	166,038	.....	.....	
	Total—44 mines		1,595,677	1,046,128	868,856	3,510,661	3,221,642	289,019	106,084	199	1,988	2,054	4,042	2,261,532	1,149,129	15	

Mines reported for 1912, 48.  
New mines, 10.  
Abandoned mines, 14.  
Mines in 1913, 44.



## RECAPITULATION BY COUNTIES, FIFTH DISTRICT, 1913

	Christian	Macon	Moultrie	Shelby	Vermilion	Total
<b>SHIPPING MINES</b>						
Number of mines.....	10	5	1	2	18	36
Production of different grades in tons—						
Mine run.....	239,413	93,202	2,513	2,382	1,452,729	1,790,239
Lump.....	646,449	109,106	58,997	56,243	1,030,973	1,901,768
Egg.....	5,254	23,458	5,175	21,189	.....	55,076
Nut.....	132,367	9,584	3,103	7,204	121,988	274,246
Pea.....	368,613	36,696	31,922	19,050	636,057	1,092,338
Slack.....	89,641	7,686	3,570	89,501	102,876	293,274
Total.....	1,481,737	279,732	105,280	195,569	3,344,623	5,406,941
Disposition of output, in tons—						
Loaded on cars for shipment.....	1,147,837	150,468	97,565	164,553	3,221,642	4,782,065
Other purposes.....	333,900	129,264	7,715	31,016	122,981	624,876
Kegs of powder used for blasting coal ..	30,254	3,847	792	900	100,176	135,969
Days of active operation.....	165	154	224	158	210	187
Employees, underground—						
Miners.....	898	394	81	216	1,844	3,433
Others.....	904	106	14	51	1,629	2,704
Boys.....	39	9	.....	17	60	125
Employees, above ground.....	185	39	14	29	298	565
Total.....	2,026	548	109	313	3,831	6,827
Tons mined by hand.....	1,166,974	279,732	105,280	145,756	2,195,494	3,893,236
Tons mined by machine.....	314,763	.....	.....	49,813	1,149,129	1,513,705
Number of machines in use.....	18	.....	.....	8	40	66
Number of motors in use.....	20	.....	.....	1	19	40
Number killed.....	7	1	.....	1	15	24
Number injured.....	17	.....	.....	.....	82	99
Blasting coal—						
From solid—tons.....	1,066,671	279,732	105,280	.....	1,747,304	3,198,987
Undercut—tons.....	415,066	.....	.....	195,569	.....	610,635
Both methods—tons.....	.....	.....	.....	.....	1,597,319	1,597,319
<b>LOCAL MINES</b>						
Number of mines.....	.....	.....	.....	5	26	31
Production of different grades in tons—						
Mine run.....	.....	.....	.....	.....	142,948	142,948
Lump.....	.....	.....	.....	7,399	15,155	22,554
Other grades.....	.....	.....	.....	.....	7,935	7,935
Total.....	.....	.....	.....	7,399	166,038	173,437
Kegs of powder used for blasting coal ..	.....	.....	.....	.....	5,908	5,908
Days of active operation.....	.....	.....	.....	182	191	190
Number of employees.....	.....	.....	.....	58	211	269
Tons mined by hand.....	.....	.....	.....	7,399	166,038	173,437
Tons mined by machine.....	.....	.....	.....	.....	.....	.....
Number killed.....	.....	.....	.....	.....	.....	.....
Number injured.....	.....	.....	.....	.....	.....	.....

Whole number of mines reported for 1912, 71.

Number of new mines opened during year, 13.

Number of mines abandoned during the year, 17.

Whole number of mines reported for 1913, 67.

## SIXTH INSPECTION DISTRICT—1913

COUNTIES—LOGAN, McLEAN, SANGAMON. THOMAS P. BACK, *Inspector*,  
SPRINGFIELD

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Logan, McLean, and Sangamon.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	3
Number of shipping mines.....	35
Number of local mines.....	5
Number of new or re-opened mines.....	....
Number of closed or abandoned mines.....	....
Number of miners.....	5,018
Others underground, men.....	2,021
Boys underground.....	154
Boys above ground.....	6
Others above ground.....	663
Total number of employees.....	7,862
Total tons of coal produced.....	6,293,685
Days of active operation, all mines.....	179
Kegs of powder used for blasting coal.....	254,130
Tons of coal shipped.....	5,642,844
Tons supplied to locomotives.....	77,566
Tons sold to local trade.....	340,910
Tons consumed and wasted at mines.....	232,365
Number of fatal accidents.....	16
Number of non-fatal accidents.....	40
Number of employees to each fatal accident.....	491
Number of employees to each non-fatal accident.....	197
Tons of coal produced to each fatal accident.....	393,355
Tons of coal produced to each non-fatal accident.....	157,342
Ratio of fatal accidents per 1,000 employees.....	2.04

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Logan.....	429,555	411,003	.....	18,552
McLean.....	96,898	93,236	.....	3,662
Sangamon.....	5,488,419	5,789,446	301,027	.....
Total.....	6,014,872	6,293,685	301,027	22,214
Net.....	.....	.....	278,813	.....

## IMPROVEMENTS

The Chicago, Wilmington & Vermilion Coal Company has built, of brick and concrete, a new engine and power-house 48 feet by 60 feet; put on new drum, steel cross-heads and steel cranks on the hoisting engines; installed a new 350 K.W. generator and new high-speed Corliss engine, at the No. 1 mine, Thayer, Sangamon County.

T. J. O'Gara has made the following improvements at the Jefferson mine:

One 150 H.P. Westinghouse motor for hoist; one Lidgerwood single drum hoisting engine, equipped with hand and air brake; one 50 H.P. Westinghouse motor for fan; one 100 K.W. rotary converter, for haulage; one 8-ton Morgan-Gardner haulage locomotive, one 15 H.P. Westinghouse motor, for shaker screen; one 10 H.P. motor, driving American Centrifugal pump, for fire protection, and a tank for water system below; one 5 H.P. Westinghouse motor, driving all machines in blacksmith shop; one Fairbanks-Morse & Company's 4 by 6 triplex pump, driven by one 7½ H.P. Westinghouse motor; one car haul, for handling empties at shaft bottom, designed by Jeffrey Manufacturing Co., driven by a 5 H.P. Westinghouse motor; one car puller, for handling railroad cars, driven by a 10 H.P. Westinghouse motor; one new Fairbanks track scales, equipped with steel I beams; fifty new mine cars; two Herzler Hennenger self-dumping cages; one new Government Standard tripple scales, and has re-timbered part of the hoisting shaft.

The following improvements have been made at the No. 6 mine of the Madison Coal Corporation, Divernon, Sangamon County:

A fire-proof rescue station has been erected on the surface. An electric car puller, whereby the railroad cars can be handled as easily in winter as in summer, has been installed. A Nicholson automatic engine stop, made by the Vulcan Iron Works, Wilkesbarre, Pa., has been installed in the engine-room. Below, a First Aid room is being constructed; the ribs in and around the bottom of the mine, for a distance of 300 feet each way, have been concreted; the machine has been enlarged and an electric sand driver installed. During the year ten automatic trap doors, made by the American Mine Door Company, Canton, Ohio, have been put in. On each side of the door, over the track, a red light, signifying danger, is placed, and over the traveling doors is placed a white light, signifying it is safe for employees to go through that way.

The Black Diamond Coal Co., Auburn, Sangamon County, has built a new steel head frame at a cost of \$7,500.00. A new machine and blacksmith shop at a cost of \$2,500.00 has been built, and two pairs of track scales put in.

The tippie of the Spaulding Coal Co., which was burned down in May, 1912, has been rebuilt with steel. Engine and boiler-houses and new fan have been put in.

The Woodside Coal Company, Springfield, has installed a 7-foot Robinson fan, which is driven by a 50 H.P. electric motor, at the escape shaft at a cost of \$2,500.00. A coal carrier at wagon chutes, costing \$2,000.00, and new mine cars costing \$1,200.00 have been put in.

## FATAL ACCIDENTS

August 7, 1912, Harvey Smith, miner, aged 58 years, married, was killed at the Woodside Coal Company's mine, Springfield, by a fall of slate in his working place. Deceased was loading a car of coal when a piece of slate fell from between two slips, striking him between the shoulders. He died about three hours after being injured. He leaves a widow and five children.

September 3, 1912, Ervin Katcher, trapper, aged 18 years, single, was killed by a mine car at the Chicago, Wilmington & Vermilion Coal Company's mine, Thayer, Sangamon County. Deceased was employed to attend a door at the west parting; a driver, coming out with two loaded cars, he tried to sprag them when he fell under the second car. He was taken to the hospital at Springfield, where he died about six hours after the accident.

September 19, 1912, Henry McMasters, driver, aged 22 years, single, was killed at the Madison Coal Corporation No. 6 mine, Divernon, Sangamon County, by pit cars.

September 26, 1912, Barney Tornant, miner, aged 26 years, single, died at the hospital in Springfield, from injuries received from falling slate at the Cora Coal Company's mine, Andrew, Sangamon County. Deceased was loading a car of coal on September 14th, when a piece of slate fell, breaking his back.

October 17, 1912, John W. Owens, driver, aged 29 years, married, was instantly killed by a fall of slate in the Citizens' Coal Mining Company, Mine B, Springfield. He leaves a widow and one child.

November 15, 1912, Camille Combs, trip rider, aged 20 years, single, was killed at the Black Diamond Coal Company's mine, Auburn, Sangamon County. He was riding on the car next to the motor when the car jumped the track and crushed his head between the end of car and a 6"x6" door frame. He was taken to the hospital, where he died the next day.

November 27, 1912, Jacob Thomas, miner, aged 50 years, married, was instantly killed by a fall of rock in the C., W. & V. Coal Company's No. 1 mine, Thayer, Sangamon County. The timbermen had been into the place and asked to be allowed to timber it. Deceased told them to go into the next entry and work until he finished loading his car. Before the car was loaded the rock fell. He leaves a widow and seven children.

January 8, 1913, Wesley Prehoda, miner, aged 18 years, single, was killed by being burned with powder in the Springfield Coal Mining Company's No. 2 mine, Riverton, Sangamon County. Deceased was working with his father, and going out of the working place to a cross-cut between the two entries, he lighted a short piece of fuse, and was standing over a keg about two-thirds full powder, when a spark from the fuse fell into the powder, causing an explosion. He died the following day.

February 1, 1913, Henry Weitkamper, miner, aged 26 years, married, and Thomas Loomis, electrician, aged 47 years, married, were instantly killed by an explosion of gas in the Latham Coal Company's mine, Lincoln, Logan County. The explosion occurred on the haulage road and no one knows how it happened. Twenty-one workmen had passed the point not more than thirty minutes previous to the accident. Thomas Loomis was repairing the trolley wire on the pillar side of the entry when Weitkamper came along and the explosion took place, killing them instantly. Each man leaves a widow and three children.

February 13, 1913, August Tanki, shot-firer, aged 27 years, married, was killed at the Jones & Adams Coal Company's mine, Springfield. Deceased commenced firing shots with the air current instead of against it, and when he got to the face of the entry the smoke from the shots in the rooms had preceded him. After firing the shots in the front entry he went into the back entry and lighted the shots there, and in coming out lost his way and returned through the cross-cut into the front entry, when he was overcome and died. He leaves a widow and two children.

February 21, 1913, Charles Palovich, timberman, aged 22 years, married, was killed by falling slate in the Latham Coal Company's mine, Lincoln, Logan County. Deceased was taking out the track from an abandoned entry and was in the act of lifting a room switch when a mass of slate fell from the side, causing injuries from which he died next day. He leaves a widow.

April 29, 1913, James Burrows, miner, aged 27 years, married, was instantly killed by being run over by a trip of cars at the Woodside Coal Company's mine, Springfield. Deceased was on his way to the shaft bottom and a trip of cars coming behind him, he stepped to one side to let it pass. After several cars had passed, he stepped onto the track and was run down by the remainder of the trip, which had become uncoupled. He leaves a widow.

April 30, 1913, John Gamble, miner, aged 39 years, married, was killed at the Chicago-Springfield Coal Company's mine, Springfield, by pit cars. He leaves a widow.

May 13, 1913, Herman Kremitzki, driver, aged 25 years, married, died from injuries received March 14, 1913, at the Illinois Midland Coal Company's mine, Sherman, Sangamon County. Deceased was coming out onto the parting when he ran into a trip of cars and was crushed through the hips. He leaves a widow and two children.

June 9, 1913, Joseph Kungis, miner, aged 35 years, single, died from injuries received on May 7, 1913, by falling slate at the Capitol Coal Company's mine, Springfield. Deceased was warned that his place was not safe and the manager told him not to enter it, but he went in and commenced to work, when the slate fell and broke his back.

Respectfully submitted,

THOMAS P. BACK

State Inspector of Mines, Sixth District, Springfield, Ill.

### FATAL CASUALTIES, SIXTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Aug. 7	Harvey Smith.....	58	Miner.....	Springfield.....	1	1	5	2		Falling slate.....
Sept. 3	Ervin Katcher.....	18	Trapper.....	Viriden.....	1	1				Pit car.....
19	Henry McMasters.....	22	Driver.....	Divernon.....	1	1				do.....
26	Bernard Tornela.....	25	Miner.....	Springfield.....	1	1				Falling slate.....
Oct. 17	John W. Owens.....	29	Driver.....	do.....	1	1	1	2		do.....
Nov. 16	Camille Combs.....	20	Trip rider.....	Auburn.....	1	1				Pit car.....
26	Jacob Thomas.....	50	Miner.....	Thayer.....	1	1	7	4		Falling slate.....
1913										
Jan. 8	Wesley Prehoda.....	18	Miner.....	Riverton.....	1	1				Powder explosion..
Feb. 1	Henry Weitkamper.....	26	do.....	Lincoln.....	1	1	3	4		Gas explosion.....
1	Thomas Loomis.....	47	Electrician.....	do.....	1	1	3	4		do.....
13	August Tanki.....	27	Shot firer.....	Springfield.....	1	1	2	3		Asphyxiated.....
22	Chas. Palovich.....	22	Timberman.....	Lincoln.....	1	1		1		Falling slate.....
Apr. 29	James Burrows.....	72	Miner.....	Springfield.....	1	1		1		Pit cars.....
30	John Gamble.....	39	do.....	Riverton.....	1	1		1		do.....
May 13	Herman Kremitzki.....	25	Driver.....	Springfield.....	1	1	2	3		do.....
June 9	Joseph Kungis.....	35	Miner.....	do.....	1	1				Falling slate.....
	Total.....				10	6	10	23	25	

### RECAPITULATION OF FATAL CASUALTIES, SIXTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Auburn.....	1	Drivers.....	3	Asphyxiation.....	1	Black Diamond.....	1
Divernon.....	1	Electrician.....	1	Falling slate.....	6	Capitol.....	1
Lincoln.....	3	Miners.....	8	Gas explosion.....	2	Chicago-Springfield.....	1
Riverton.....	2	Shot firer.....	1	Pit cars.....	6	Chl., Wil'm & Ver.....	2
Springfield.....	7	Timberman.....	1	Powder explosion..	1	Citizens.....	1
Thayer.....	1	Trapper.....	1			Cora.....	1
Viriden.....	1	Trip rider.....	1			Ill. Midland.....	1
						Jones & Adams.....	1
						Latham.....	3
						Madison Corp.....	1
						Springfield.....	1
						Woodside.....	2
Total.....	16		16		16		16

## NON-FATAL CASUALTIES, SIXTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July 6	Coloyer Campu	27	Springfield	1		3	4	Foot broken, falling pipe	37
Aug. 10	R. W. Beeler	30	do.	1		1	2	Jaw broken, falling timber	32
19	Joe Paton	21	Pawnee		1			Collar bone broken, pit car	34
23	Wm. Du Crass	22	Keys	1		1	2	Ankle injured, pit car	60
Sept. 5	John Groch, Jr.	23	Pawnee		1			Body injured, falling slate	33
12	Victor Maiski	34	Lincoln	1		4	5	Body burned, gas explosion	63
12	Joe Teacher	23	Lincoln	1			1	do.	63
13	Paddy Munster	26	Springfield		1			Leg injured, pit car	31
16	Dominick Klickna	22	do.		1			Body injured, kicked by mule	46
26	Tony Smith	27	do.	1		3	4	Nose broken, falling slate	42
Oct. 14	Walter Spence	22	do.	1			1	Foot injured, falling slate	40
14	Geo. D. Miller	48	Divernon	1		4	5	Ankle injured, cage	48
18	E. Hutchinson	20	Witt		1			Eye injured, mule	32
19	C. J. Lemasters	27	Springfield	1		3	4	Ribs broken, pit car	49
21	John Vasalapisc	50	Pawnee	1		1	2	Head injured, falling clod	30
23	Frank Beckman	23	Bissell	1		1	2	Fingers injured, pit car	33
25	Joe Toekash	28	Divernon	1		3	4	Ankle broken, falling clod	97
31	Edward Myers	19	Edinburg		1			Foot injured, pit car	50
Nov. 12	John Vieweg	18	Springfield		1			Legs injured, motor	30
18	Dominick Smalites	38	do.		1			Toe broken, falling slate	55
29	Thomas Durbin	28	Divernon		1		1	Legs injured, falling coal	32
29	E. E. Bowman	32	do.		1		1	Shoulder injured, falling coal	35
Dec. 23	Arthur Kirk	22	Springfield		1			Arm broken, coal fell down shaft	40
23	John Cole	34	do.	1			1	do.	40
30	Thomas Daugherty	45	do.		1			Back injured, falling slate	37
1913									
Jan. 3	John Pass	49	do.	1		3	1	Legs broken, pit cars	130
4	James Thain	42	Divernon	1		5	6	Legs injured, pit cars	60
25	J. P. Wilson	40	Springfield	1		2	3	Leg broken, kicked by mule	67
Feb. 5	James Judd	39	do.	1		3	4	Foot broken, falling slate	60
7	Fred Harman	23	do.		1			Head injured, pit car	30
11	George Laben	18	do.		1			Hand injured, pit car	*
16	Robt. Soulsby	45	Divernon		1			Collar bone broken, pit car	45
Mar. 4	John R. Harrison	29	Pawnee		1			Back injured, falling slate	33
11	John Ippolita	21	Springfield		1			Body injured, pit car	32
Apr. 3	Wm. Donovan	28	Divernon		1			Thumb injured, falling props	30
7	Emanuel Ball	26	Springfield		1			Ribs broken, pit car	43
14	John Cole	34	do.	1			1	Foot broken, coal falling down shaft	45
22	Joe Gavin	26	do.		1			Foot injured, railroad car	92
May 15	William Manuel	24	do.		1			Leg broken, falling coal	*
June 9	P. W. McMurdo	32	do.	1				Foot injured, motor	34
	Total			20	20	37	54		

\* Not returned to work.

Total number injured..... 40      Total time lost by men returned—days.... 1,790  
 Not returned to work, July 1, 1913..... 2      Average days lost..... 47.11

Number returned to work..... 38

## RECAPITULATION OF NON-FATAL CASUALTIES, SIXTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Bissell	1	Asst. mine mgrs.	2	Cage	1	Capitol	1
Divernon	7	Cagers	6	Coal fell down shaft	3	Ill. Midland	7
Edinburg	1	Drivers	11	Falling clod	2	Jones & Adams	18
Keys	1	Laborers	5	Falling coal	3	Latham	2
Lincoln	2	Machine helper	1	Falling pipe	1	Lincoln Park C. & B.	1
Pawnee	4	Miners	15	Falling slate	7	Madison Corp.	7
Springfield	23			Falling timber	2	Number Twelve	1
Witt	1			Gas explosion	2	Springfield C. M.	1
				Motor	2	Tuxhorn	2
				Mule, kicked by	3		
				Pit cars	13		
				Railroad cars	1		
Total	40		40		40		40



RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES,  
CONJUGAL RELATIONS AND TIME LOST, SIXTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependent	Time lost—days		Percent- age of injuries
						Total	Average	
Ankles broken.....	1	1	.....	3	4	97	97.0	2.50
Ankles injured.....	2	2	.....	5	7	108	54.0	5.00
Arms broken.....	2	1	1	.....	1	80	40.0	5.00
Backs injured.....	2	.....	2	.....	.....	70	35.0	5.00
Bodies burned.....	2	2	.....	4	6	126	63.0	5.00
Bodies injured.....	3	.....	3	.....	.....	111	37.0	7.50
Collar bone broken.....	2	.....	2	.....	.....	79	39.5	5.00
Eye injured.....	1	.....	1	.....	.....	32	32.0	2.50
Feet broken.....	3	3	.....	6	9	142	47.3	7.50
Feet injured.....	4	2	2	.....	1	216	54.0	10.00
Fingers injured.....	2	1	1	1	2	63	31.5	5.00
Hands injured.....	1	.....	1	.....	.....	.....	.....	2.50
Heads injured.....	2	1	1	1	2	60	30.0	5.00
Jaw broken.....	1	1	.....	1	2	32	32.0	2.50
Legs broken.....	3	2	1	5	4	197	98.5	7.50
Legs injured.....	4	1	3	5	7	153	38.3	10.00
Nose broken.....	1	1	.....	3	4	42	42.0	2.50
Ribs broken.....	2	1	1	3	4	92	46.0	5.00
Shoulder injured.....	1	1	.....	.....	1	35	35.0	2.50
Toe broken.....	1	.....	1	.....	.....	55	55.0	2.50
Total.....	40	20	20	37	54	1,790	47.1	100.00



## LOGAN COUNTY, SIXTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees		Tons mined		Acci-dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes			All others employed	Total	By hand	By machine	Killed	Injured
SHIPPING MINES																
1	Latham Mining Co., North.....	Lincoln.....	44, 928	72, 758	80, 004	197, 690	174, 635	23, 055	9, 684	197	197	63	260	197, 690	.....	3
2	Lincoln M. Co. No. 1.....	do.....	1, 600	71, 380	35, 692	108, 672	79, 786	28, 886	5, 000	158	90	68	158	108, 672	.....	2
3	Citizens Coal M. Co.....	do.....	32, 998	32, 089	29, 389	94, 456	41, 604	52, 852	4, 528	215	98	42	140	94, 456	.....	.....
4	Mt. Pulaski Col. Co.....	Mt. Pulaski.....	10, 185	.....	.....	10, 185	4, 473	5, 712	725	134	22	11	33	10, 185	.....	.....
	Total—4 mines.....	.....	89, 711	176, 207	145, 085	411, 003	300, 498	110, 505	19, 937	176	407	184	591	411, 003	.....	3

Mines reported in 1912, 4.  
Mines in 1913, 4.

## M'LEAN COUNTY, SIXTH DISTRICT, 1913

SHIPPING MINES														
1	McLean Co. Coal Co.....	Bloomington.....	18, 000	45, 000	12, 305	75, 305	587	74, 718	.....	282	110	45	155	75, 305
2	Collax Co-operative Co., No. 1.....	Collax.....	13, 015	3, 687	1, 229	17, 931	2, 144	15, 787	915	265	17	19	36	17, 931
	Total—2 mines.....	.....	31, 015	48, 687	13, 534	93, 236	2, 731	90, 505	915	274	127	64	191	93, 236

Mines reported for 1912, 2.  
Mines in 1913, 2.



## RECAPITULATION BY COUNTIES, SIXTH DISTRICT, 1913

	Logan	McLean	Sangamon	Total
<b>SHIPPING MINES</b>				
Number of mines.....	4	2	29	35
Production of different grades in tons—				
Mine run.....	89, 711	31, 015	1, 099, 899	1, 220, 625
Lump.....	176, 207	48, 687	2, 127, 700	2, 352, 594
Egg.....	14, 606	2, 000	766, 637	783, 243
Nut.....	23, 728	6, 000	139, 100	168, 828
Pea.....	97, 003	3, 729	1, 481, 731	1, 582, 463
Slack.....	9, 748	1, 805	89, 875	101, 428
Total.....	411, 003	93, 236	5, 704, 942	6, 209, 181
Disposition of output, in tons—				
Loaded on cars for shipment.....	300, 498	2, 731	5, 339, 515	5, 642, 744
Other purposes.....	110, 505	90, 505	365, 427	566, 437
Kegs of powder used blasting coal.....	19, 987	915	233, 278	254, 130
Days of active operation.....	176	274	174	180
Employees under ground—				
Miners.....	407	127	4, 401	4, 935
Others.....	101	41	1, 871	2, 013
Boys.....	8		146	154
Employees above ground.....	75	23	539	637
Total.....	591	191	6, 957	7, 739
Tons mined by hand.....	411, 003	93, 236	4, 749, 871	5, 254, 110
Tons mined by machine.....			955, 071	955, 071
Number of machines in use.....			28	28
Number of motors in use.....	4		33	37
Number killed.....	3		13	16
Number injured.....	2		36	38
Blasting coal—				
From solid—tons.....	411, 003	93, 236	4, 749, 871	5, 254, 110
Undercut—tons.....			955, 071	955, 071
Both methods—tons.....				
<b>LOCAL MINES</b>				
Number of mines.....			5	5
Production of different grades in tons—				
Mine run.....			18, 826	18, 826
Lump.....			34, 838	34, 838
Other grades.....			30, 840	30, 840
Total.....			84, 504	84, 504
Kegs of powder used blasting coal.....			3, 798	3, 798
Days of active operation.....			172	172
Number of employees.....			123	123
Tons mined by hand.....			84, 504	84, 504
Tons mined by machine.....				
Number killed.....				
Number injured.....			2	2

Whole number of mines reported for 1912, 40.

Number of new mines opened during year, none.

Number of mines abandoned during the year, none.

Whole number of mines reported for 1913, 40.

## SEVENTH INSPECTION DISTRICT—1913

COUNTIES—GREENE, JERSEY, MACOUPIN, MONTGOMERY. W. W. WILLIAMS,  
Inspector, LITCHFIELD

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Greene, Jersey, Macoupin, and Montgomery.

## SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	4
Number of shipping mines.....	22
Number of local mines.....	5
Number of new or re-opened mines.....	....
Number of closed or abandoned mines.....	3
Number of miners.....	2,018
Others underground, men.....	4,864
Boys underground.....	159
Boys above ground.....	7
Others above ground.....	596
Total number of employees.....	7,644
Total tons of coal produced.....	7,632,256
Days of active operation, all mines.....	177
Kegs of powder used for blasting coal.....	88,104
Tons of coal shipped.....	7,111,684
Tons supplied to locomotives.....	72,004
Tons sold to local trade.....	157,796
Tons consumed and wasted at mines.....	289,772
Number of fatal accidents.....	14
Number of non-fatal accidents.....	99
Number of employees to each fatal accident.....	546
Number of employees to each non-fatal accident.....	71
Tons of coal produced to each fatal accident.....	545,161
Tons of coal produced to each non-fatal accident.....	77,093
Ratio of fatal accidents per 1,000 employees.....	1.83

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Calhoun.....	1,660	.....	.....	1,660
Greene.....	5,400	3,845	.....	1,555
Jersey.....	800	1,400	600	.....
Macoupin.....	4,913,050	5,208,682	295,632	.....
Montgomery.....	2,280,341	2,418,329	137,988	.....
Total.....	7,201,251	7,632,256	431,220	3,215
Net.....	.....	.....	431,005	.....

## ABANDONED MINES

The following mines have been abandoned or not in operation this year: Calhoun Clay Products Co., Golden Eagle, Calhoun County; Illinois Fuel Co., Nilwood, and William Neill, Bunker Hill, Macoupin County.

## CHANGE OF NAME

The Korthkamp Coal Co., Hillsboro; the Burnwell Coal Co., No. 1, Witt, and Montgomery County Coal Co., Hillsboro, are now known as Peabody Coal Company, Nos. 11, 12 and 15, respectively.

## MINE FIRES

On May 21, 1913, fire destroyed the mine tibble and the washer at the Royal Colliery Company's mine, Virden, Macoupin County, entailing a loss of over \$100,000.00, and throwing 600 men out of employment. The company is now busy in re-erecting with steel, and expect to be able to resume work some time in September.

## IMPROVEMENTS

A new air and escape shaft has been completed at Mine No. 2 of Clover Leaf Coal and Mining Co., at Coffeen, Montgomery County.

The Madison Coal Corporation has made the following improvements at No. 5 mine, Mt. Olive:

A rescue station has been built on the surface to take care of the injured and to keep rescue apparatus in; also installed, on the surface, one endless tail rope electric car-puller with 4,000 feet of rope connected and can now move the railroad cars, either empty or loaded, in winter as easily as in summer; a Nicholson automatic stop, with steam reverse, on hoisting engine, to prevent over-winding should anything happen to the engineer while hoisting men, has been installed; rebuilt track scales and used large "I" beams instead of timber for the main bearings; also installed twelve automatic mine doors, made by the American Mine Door Co., of Canton, Ohio; these doors open by the motor or mule trips and are a good door for ventilation and safety. They are so arranged that men in traveling along the entries do not go through these doors but, instead, go through door erected on the side for that purpose. Above this traveling door is a white light on each side, which signifies safety, and above the haulage door is a red light on each side, which signifies danger.

Considerable concreteing around the bottom of the shaft for fire protection has been done.

The Peabody Coal Company has made extensive improvements at the mines in Montgomery County.

At the No. 10 mine the entire equipment is being removed and machinery of the most modern type installed. This includes a steel tibble covering four tracks, in which is a Shaker screen built to load all sizes of coal. The screen is driven by a hundred H.P., 250 V. D. C. motor of two speeds. The sheave wheels are 10 feet in diameter with a 9-inch shaft. The cages are the latest improved Olson and will carry two 4-ton cars side by side. The cable used for hoisting will be 1¾ inches. The building containing the hoist, generator etc., is 87 feet by 57 feet divided into three rooms, and is built entirely of concrete, brick and steel. The front room facing the shaft contains the hoist and twin conical drums running from 9 to 11 feet. These drums are keyed to a shaft 15 inches in diameter. On one end of the shaft is connected a 550 V. D. C. motor, 1,350 H.P. On the other end of the shaft is connected by gears an auxiliary motor which is 150 H.P., 440 V. induction. The drums are connected with over-wind drive. In the center room there are installed a 1,000 K.W. fly-wheel motor generator set of 550 V., which will furnish power for hoist motor, and two 400 K.W., 275 V. D. C. generators to furnish power for the mining machines and locomotives. The rear room will be a sub-station equipped with two banks transformers and other apparatus necessary for reducing the current from 33,000 to 2,300 volts. One

bank transformer contains three 600 K.W.A. transformers and the other bank contains three 100 K.V.A. transformers. Under this building is a basement where the cables will be carried from the different machinery. The fan is 5x16 feet, Jeffrey, driven by 3-speed 440 V. induction motor. The machine shop is 30x90 feet, and will carry all necessary machinery for making the supplies that will be used around the mine. Steel guides have been placed in the shaft instead of the ordinary wooden ones. The shaft bottom on one side has been concreted and a steel "I" beam placed every 3 feet. On the other side this has been done for a distance of 100 feet. The track has been relaid with heavier steel from the shaft bottom to the working face. Thirty mine machines and ten 5-ton and two 15-ton locomotives for haulage will be installed. Mine cars of 4-ton capacity will be used and two cars hoisted on each cage.

At No. 11 mine a 4x10 Jeffrey fan, driven by 16"x18" Chuse engine, and two 12-ton locomotives for haulage purposes, have been installed.

At No. 12 mine two 12-ton electric locomotives and a 125 K.W. motor generator set have been installed.

At No. 14 mine all of the mules have been taken out of the mine and eight 5-ton gathering locomotives installed. Three sets picking tables have been placed for better cleaning and preparing of the coal.

At No. 15 mine two 5-ton locomotives have been installed. This mine is closed down at present on account of making some necessary repairs on the shaft bottom in the way of concreting sides and placing steel "I" beams on same.

The Superior Coal Company, Gillespie, Macoupin County, has made many important changes and additions to its equipment. On the surface, each plant has been repaired extensively, including a complete overhauling of boiler plants, compressors, repairing of the chutes and tipples, and weighing apparatus. A new grade has been established in the railroad yards at each mine and the company has installed a Fairmont car retarder to handle the railroad cars over the scales while loading. This machine has proven to be very valuable, both for its efficiency and its complete control of a railroad car while loading.

At Mine No. 1 a conveyor has been erected to deliver coal into the boiler-room direct from the screen. This conveyor is driven by a steam engine at the rear end of the boiler-house, and there is under construction another conveyor to be operated by the same engine, which takes the cinders out of the boiler-room and loads them automatically into railroad cars.

At No. 1 and No. 2 mines two large steel smoke stacks have been erected to take the place of two which had entirely given away.

In connection with the machine shop equipment at Mine No. 3, there has been installed a complete Ox-Acetylene welding outfit, a combination shears and punch with 24-inch throat, and a new turning lathe.

At No. 3 mine a plant for making concrete blocks out of cinders and cement has been installed. These blocks are made in large quantities and taken into the mine for use in building mine stoppings, etc.

A new 200 K.W. Westinghouse generator directly connected to an Ideal engine 20"x20" with complete switchboard equipment for connections in parallel with the old generator of the same type, has been installed at Mine No. 3.

In the mines the parting extension necessary to keep the motors going close to the face has been made during the year, and many valuable changes in the haulage system and bottom arrangements made which have placed these mines far ahead of their previous records for tonnage.

At No. 2 the rock was taken down from the roof and the bottom grade extended back about 50 feet, making a larger holding capacity for the bottom.

At No. 3, on the east side of the bottom, the rock roof was taken down about 3 feet and the main overcast raised in proportion, and the tracks on that side of the mine elevated several feet, grading out to a plane upon which the motor will successfully throw its cars into the bottom without having to stop and push, which will mean quite a saving of time and permit this motor to go further in after its trips.



There has been added to the haulage equipment two Goodman 5-ton reel type gathering locomotives and one 15-ton ball-bearing armature Jeffrey road motor with arc light and all the latest improvements.

At No. 3 mine the compressed air machines have been entirely abandoned and the mine fully equipped with electric coal-cutting machines. Five Sullivan short-wall type machines were purchased, three of which were put into No. 3 mine, and two of them substituted for four chain breast machines of the Jeffrey type at No. 2. The chain breast machines being made a part of No. 3's equipment.

This company has also, during the year, installed eight automatic trap doors. Two of them have been in operation for ten months and are working splendidly. The other six have been recently installed. It is the intention of the company to substitute these doors for the old-fashioned wooden doors as quickly as possible.

In addition to the foregoing improvements, 275 mine cars have been added, stoppings rebuilt, and two overcasts have been erected at each mine.

Interest has been maintained in First Aid and Rescue Work, and, in December, 1912, this company conducted, at its own expense, a contest in First Aid to the Injured, which placed it in the lead in First Aid Work. A valuable trophy was awarded and a splendid program rendered. Prominent mine men of the State and community were present. The company has, during the past year, provided a supply of enameled steel signals, signifying danger, pointing the way to the surface, hands off, and adopted the Illinois Legal Code of Hoisting Signals.

#### FATAL ACCIDENTS

August 7, 1912, Anton Suda, miner, aged 35 years, married, was killed by a fall of coal at the face of his room in Mine No. 2, Superior Coal Co., Gillespie, Macoupin County. He leaves a widow and two children.

September 6, 1912, Alex Norris, loader, aged 29 years, single, was handling a full keg of powder with his lamp on his head, when his lamp, or a spark, fell into the keg exploding the powder. He died within a few minutes.

September 11, 1912, Adelbert Williams, laborer, aged 44 years, married, was working on a raft, repairing pipes, in a pond at Mine No. 15, Consolidated Coal Co., Mt. Olive, Macoupin County, when he fell in and was drowned. He leaves a widow and five children.

September 27, 1912, William Sootman, machine helper, aged 39 years, single, was killed by a fall of coal in Mine No. 1, Superior Coal Co., Gillespie, Macoupin County.

October 4, 1912, Clyde Foster, miner, aged 25 years, married, died from injuries received three days before by a fall of rock in the Royal Colliery Company's mine, Virden, Macoupin County. He leaves a widow and two children.

January 2, 1913, John Kufsick, trapper, aged 19 years, single, was caught between motor and loaded cars in Mine No. 15, Peabody Coal Co., Taylor Springs, Montgomery County, and killed instantly.

January 4, 1913, Andrew Ondich, miner, aged 27 years, single, was killed by a fall of rock in Mine No. 11, Peabody Coal Co., Hillsboro, Montgomery County.

April 12, 1913, William Pauge, miner, aged 37 years, married, employed at Mine No. 8, Consolidated Coal Company, Mt. Olive, Macoupin County, was killed by falling rock. He leaves a widow and two children.

April 16, 1913, John Bruecker, machine helper, aged 32 years, married, died from injuries received January 23, 1913, by a fall of slate in the No. 14 mine, Consolidated Coal Co., Staunton, Macoupin County. He leaves a widow and three children.

May 15, 1913, Despedri Constantia, machine helper, aged 29 years, single, died from injuries received, three days previous, by a fall of coal in No. 2 mine, Superior Coal Co., Gillespie, Macoupin County.



May 16, 1913, T. Bergonzini, miner, aged 45 years, married, was instantly killed by a fall of coal in the Royal Collieries mine, Virden, Macoupin County. He leaves a widow.

May 27, 1913, Dante Melini, miner, aged 24 years, married, died from the effects of injuries previously received by a fall of slate in the Shoal Creek Coal Company's Mine No. 1, Panama, Montgomery County. He leaves a widow.

June 2, 1913, Joseph Hoelting, miner, aged 23 years, single, was instantly killed in the Carlinville Coal Company's mine, Carlinville, Macoupin County, by falling slate.

June 13, 1913, August Behrens, miner, aged 44 years, married, employed at Mine No. 11, Peabody Coal Co., Hillsboro, Montgomery County, was killed by a fall of slate. He leaves a widow.

Respectfully submitted,

W. W. WILLIAMS

*State Inspector of Mines, Seventh District, Litchfield, Ill.*

### FATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Aug. 7	Anton Suda.....	35	Miner.....	Benld.....	1		1	2	3	Falling coal.....
Sept. 6	Alex Norris.....	29	Loader.....	Taylor Springs..	1					Powder explosion..
11	Adelbert Williams..	44	Laborer.....	Mt. Olive.....	1		1	5	6	Drowned.....
27	Wm. Sootman.....	39	Machine helper..	Gillespie.....	1		1			Falling coal.....
Oct. 4	Clyde Foster.....	25	Miner.....	Virden.....	1		1	2	3	Falling slate.....
1913										
Jan. 2	John Kufsick.....	19	Trapper.....	Taylor Springs..	1					Pit cars.....
4	Andrew Ondich.....	27	Miner.....	Schram City.....	1					Falling slate.....
Apr. 12	Wm. Pauge.....	37	do.....	Mt. Olive.....	1		1	2	3	do.....
16	John Bruecker.....	32	Machine runner..	Staunton.....	1		1	3	4	do.....
May 15	Despedri Constantia.	29	Machine helper..	Benld.....	1		1			Falling coal.....
16	T. Bergonzini.....	45	Miner.....	Virden.....	1		1	1		do.....
27	Dante Melini.....	24	do.....	Panama.....	1		1	1	1	Falling slate.....
June 2	Joseph Hoelting.....	23	do.....	Carlinville.....	1		1			do.....
13	August Behrens.....	44	do.....	Hillsboro.....	1		1	1	1	do.....
Total.....					8	6	8	14	22	

### RECAPITULATION OF FATAL CASUALTIES, SEVENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Benld.....	2	Laborer.....	1	Drowned.....	1	Carlinville C. Co. ....	1
Carlinville..	1	Loader.....	1	Falling coal.....	4	Consolidated.....	3
Gillespie....	1	Machine helpers..	2	Falling slate.....	7	Peabody.....	4
Hillsboro....	1	Machine runner..	1	Pit cars.....	1	Royal.....	2
Mt. Olive....	2	Miners.....	8	Powder explosion..	1	Shoal Creek.....	1
Panama.....	1	Trapper.....	1			Superior.....	3
Schram City..	1						
Staunton....	1						
Taylor Springs.	2						
Virden.....	2						
Total.....	14		14		14		14

## NON-FATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July	1 James Marchetti.....	33	Benld.....	1		2	3	Finger injured, machine.....	30
	9 Wendell Miller.....	40	Coffeen.....	1	1			Leg broken, falling rock.....	90
	13 Mannel Gray.....	17	Staunton.....	1	1			Arm broken, pit cars.....	35
	13 George Minzie.....	24	Gillespie.....	1	1			Wrist injured, falling timber.....	35
	15 Mike Crebor.....	24	Witt.....	1	1			Foot injured, falling slate.....	47
	19 Joe Kelley.....	26	Virden.....	1			1	Leg injured, falling slate.....	30
	21 Hillie Borg.....	38	Mt. Olive.....	1	1	1	2	Leg injured, pit car.....	50
	31 Charles Gasovich.....	29	Benld.....	1	1			Body injured, machine.....	50
	31 Frank Stancho.....	30	Panama.....	1	1			Finger burned, gas explosion.....	30
	31 Chas. Gagevich.....	29	Benld.....	1	1			Body injured, machine.....	50
Aug.	1 George Miller.....	28	do.....	1	1			Foot injured, pit car.....	34
	10 John Coyne.....	28	Witt.....	1	1	2	2	Toe broken, motor.....	30
	12 Dave Owens.....	57	Panama.....	1	1			Body injured, falling rock.....	42
	13 Samuel Davies.....	28	Witt.....	1	3	4		Arm broken, falling coal.....	271
	17 Wm. Walz.....	34	Hillsboro.....	1	2	3		Ankle broken, falling timber.....	32
	17 Anton Tilk.....	33	Panama.....	1	2	3		Body burned, gas explosion.....	34
	17 Joe Renner.....	28	do.....	1	1	2		do.....	42
	24 Thos. Wilson.....	53	Benld.....	1	2	3		Leg broken, falling coal.....	192
	31 Jacob Pohs.....	37	Mt. Olive.....	1	5	6		do.....	213
	31 Frank Brower.....	35	Staunton.....	1				Body injured, machine.....	33
Sept.	3 John Gerl.....	47	Mt. Olive.....	1	1			Finger injured, splinter.....	68
	5 John Kosants.....	38	Witt.....	1	1	2	2	Leg injured, falling coal.....	31
	11 James Machetti.....	33	Benld.....	1	1	2	2	Finger injured, machine.....	30
	14 John Goodwin.....	58	Nokomis.....	1	2	3		Foot broken, falling timber.....	36
	17 John Jones.....	20	Panama.....	1	1			Back injured, falling coal.....	42
	17 Steve Matches.....	30	do.....	1	1	2	2	Arm broken, falling coal.....	41
	24 Ernest Sloat.....	20	do.....	1	1			Arm broken, pit car.....	42
	25 Thos. Hendrew.....	23	Mt. Olive.....	1	1			Leg injured, kicked by mule.....	39
Oct.	26 John French.....	40	Coffeen.....	1			1	Head injured, flying coal.....	32
	4 Andy August.....	35	Mt. Olive.....	1	3	4		Leg broken, falling coal.....	205
	5 Wm. Wren.....	45	Witt.....	1	1	2		Arm broken, falling slate.....	41
	14 Wm. Heck.....	18	Gillespie.....	1	1			Body injured, pit cars.....	74
	18 John Jackin.....	33	Virden.....	1	2	3		Foot injured, machine.....	64
	27 Joe Dorris.....	35	Panama.....	1	2	3		Body burned, gas explosion.....	40
	31 Louis Pogue.....	24	Witt.....	1	1			Body injured, pit cars.....	40
Nov.	1 Wm. Smith.....	38	Virden.....	1		1		Back injured, falling slate.....	45
	2 Raymond Molinda.....	29	Panama.....	1	2	3		Body burned, gas explosion.....	41
	13 Pete Grando.....	16	Mt. Olive.....	1	1			Leg injured, pit cars.....	39
	16 L. L. Hebenstreit.....	20	Staunton.....	1	1			Arm broken, pit cars.....	248
	23 John Viotello.....	42	Benld.....	1	1			Leg injured, pit cars.....	34
	25 Otto Kerbock.....	37	Mt. Olive.....	1	4	5		Finger broken, falling prop.....	57
	26 Chas. Viviano.....	19	Panama.....	1	1			Leg injured, pit car.....	40
	30 Theodore Werner.....	25	Mt. Olive.....	1	1			Back injured, pit car.....	115
	30 John Pinckus.....	36	Taylor Springs.....	1	1	2		Foot injured, pit car.....	85
	30 Herman Schinke.....	34	Mt. Olive.....	1			1	Rib broken, falling coal.....	35
Dec.	3 Jess Munning.....	28	Panama.....	1			1	Head injured, pit car.....	115
	3 Robt. Hefley.....	35	Hillsboro.....	1	3	4		Arm broken, falling coal.....	209
	4 Joe Jones.....	17	Kortkamp.....	1	1			Fingers broken, pit car.....	30
	5 John Truhan.....	21	Witt.....	1	1			Collar bone broken, pit car.....	37
	15 Marco Stichak.....	41	Mt. Olive.....	1	7	8		Foot broken, falling coal.....	60
	15 Ludwig Flechsig.....	55	Staunton.....	1				Eye injured, flying sulphur.....	73
	15 Tom Blussig.....	34	Mt. Olive.....	1	1	2	2	Leg injured, falling slate.....	200
	15 John Buzzy.....	29	Taylor Springs.....	1		1		Leg broken, pit car.....	167
	16 Herman Revehill.....	29	Gillespie.....	1	1			Arm injured, kicked by mule.....	30
	20 Emil Grabruck.....	42	Panama.....	1	3	4		Rib broken, pit car.....	30
	21 Nels Larson.....	51	Nokomis.....	1	2	3		Head injured, fire.....	30
	23 Wm. Davies.....	50	Benld.....	1			1	Shoulder injured, falling coal.....	41
	23 Geo. Myers.....	30	Panama.....	1	3	4		Leg broken, falling coal.....	50
	31 Wm. Caskey.....	38	Virden.....	1	3	4		Body injured, falling slate.....	34
1913									
Jan.	10 Phil Granidier.....	20	Mt. Olive.....	1				Leg broken, pit car.....	114
	10 Fred Langewish.....	57	Staunton.....	1	1			Body injured, falling scaffold.....	45
	14 M. Sheas.....	30	Kortkamp.....	1	3	4		Leg injured, falling slate.....	54
	16 Sam Wilson.....	51	Farmersville.....	1		1		Legs broken, falling slate.....	162
	20 Joseph Brown.....	34	Witt.....	1	1			Arm broken, fell down.....	38
	25 Arthur Kenedy.....	27	Mt. Olive.....	1	1			Foot injured, pit cars.....	89
	30 Jas. Struchers.....	41	Gillespie.....	1	4	5		Arm injured, falling coal.....	32
Feb.	1 Orris Rice.....	30	Hillsboro.....	1			1	Arm broken, pit car.....	41
	4 Pete Barottl.....	25	Mt. Olive.....	1	1			Leg injured, fell down.....	125
	7 Geo. Weighbois.....	30	Virden.....	1			1	Leg broken, falling slate.....	90
	10 Winfield Brown.....	53	Mt. Olive.....	1	6	7		Leg broken, falling coal.....	133
	22 James Jamison.....	28	Taylor Springs.....	1	1			Body injured, pit cars.....	44
	28 John Trigo.....	22	Panama.....	1				Foot broken, falling coal.....	81

NON-FATAL CASUALTIES, SEVENTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
Mar. 7	Wm. Zelinski.....	38	Viriden.....	1		2	3	Leg injured, falling slate.....	90
	Albo Bates.....	21	Girard.....	1				Eyes injured, shot explosion.....	*
	Chas. Steele.....	37	do.....	1				do.....	*
10	Joe Sanbrook.....	23	Witt.....	1				Finger broken, pit car.....	54
13	R. Fuller.....	35	Benld.....	1		4	5	Leg injured, fell down.....	55
16	Geo. Perchois.....	49	Nokomis.....	1				Rib broken, falling ice.....	50
18	John Vasse.....	31	Panama.....	1				Head injured, falling coal.....	30
28	Robt. Larson.....	30	Viriden.....	1			1	Leg injured, falling slate.....	30
Apr. 7	Bennie McCann.....	44	White City.....	1				Arm injured, falling slate.....	63
	H. Paske.....	62	Staunton.....	1			1	Foot broken, falling coal.....	62
	V. Zamanachek.....	31	Taylor Springs.....	1			1	Rib broken, falling slate.....	37
	Chas. Viniski.....	35	Panama.....	1		1	2	Body injured, falling coal.....	54
	Pete Brown.....	26	Sawyer ville.....	1				Hand injured, pit car.....	30
	Frank Rodger.....	39	Carlville.....	1		4	5	Ankle broken, pit car.....	66
	A. Doehler.....	40	Benld.....	1				Foot broken, falling coal.....	38
	Mike Varden.....	46	do.....	1				Leg broken, falling coal.....	30
	Al Ponk.....	30	Hillsboro.....	1			1	Foot broken, falling coal.....	36
	C. Bushavich.....	45	Witt.....	1			1	Leg broken, falling coal.....	53
	J. Seidebros.....	59	Benld.....	1				Body burned, electric wire.....	33
	John Urbon.....	43	Witt.....	1		5	6	Legs broken, falling coal.....	40
May 10	Geo. Baston.....	47	Mt. Olive.....	1			2	Leg injured, falling coal.....	*
	Joe Gozak.....	33	Staunton.....	1		2	3	Ankle injured, falling slate.....	58
	John Cuthbert.....	31	Gillespie.....	1				Leg broken, pit cars.....	30
	Geo. Stripling.....	18	do.....	1				do.....	36
	Russel Harris.....	27	do.....	1				Leg injured, pit cars.....	33
June 5	Neal Olson.....	38	Witt.....	1		2	3	Leg broken, falling rock.....	*
	Oscar Westbrook.....	24	Schram City.....	1		2	3	Leg broken, pit car.....	*
	Total.....			56	43	97	152		

\* Not returned to work.

Total number injured..... 99      Number of days lost by men returned..... 6,096  
 Number not returned, July 1, 1913..... 5      Average days lost..... 64.85  
 Number returned to work..... 94

## RECAPITULATION OF NON-FATAL CASUALTIES, SEVENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Benld.....	12	Blacksmiths.....	3	Electric wire.....	1	Carlville.....	1
Carlville.....	1	Cagers.....	3	Falling coal.....	24	Clover Leaf.....	2
Coffeen.....	2	Coupler.....	1	Falling ice.....	1	Consolidated.....	14
Farmersville.....	1	Drivers.....	17	Falling rock.....	3	Farmersville.....	1
Gillespie.....	7	Laborers.....	12	Falling slate.....	14	Glenridge.....	1
Girard.....	2	Loader.....	1	Falling timber.....	5	Hillsboro.....	1
Hillsboro.....	4	Machine helper.....	1	Fell down.....	3	Madison Corp.....	8
Kortkamp.....	2	Machine runners.....	7	Fire.....	1	Peabody.....	25
Mt. Olive.....	16	Miners.....	37	Flying coal.....	6	Royal.....	6
Nokomis.....	3	Motorman.....	1	Flying sulphur.....	1	Shoal Creek.....	16
Panama.....	16	Shot firers.....	3	Gas explosion.....	5	Superior.....	22
Sawyer ville.....	1	Spragger.....	1	Machine.....	6	Vivian.....	2
Schram City.....	1	Superintendent.....	1	Motor.....	1		
Staunton.....	7	Timbermen.....	4	Mule, kicked by.....	2		
Taylor Springs.....	4	Trackmen.....	3	Pit cars.....	28		
Viriden.....	7	Trapper.....	1	Shot explosion.....	2		
White City.....	1	Trip riders.....	3	Splinter.....	1		
Witt.....	12						
Total.....	99		99		99		99

RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CON-  
JUGAL RELATIONS AND TIME LOST, SEVENTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankles broken.....	2	2	-----	6	8	98	49.0	2.02
Ankles injured.....	1	1	-----	2	3	58	58.0	1.01
Arms broken.....	9	5	4	8	13	966	107.3	9.09
Arms injured.....	3	1	2	4	5	125	41.7	3.03
Backs injured.....	3	1	2	-----	1	202	67.3	3.03
Bodies burned.....	5	4	1	7	11	190	38.0	5.05
Bodies injured.....	10	2	8	4	6	466	46.6	10.10
Collar bone broken.....	1	-----	1	-----	-----	37	37.0	1.01
Eyes injured.....	3	1	2	-----	-----	73	73.0	3.03
Feet broken.....	6	5	1	9	14	313	52.2	6.06
Feet injured.....	5	2	3	3	5	319	63.8	5.05
Fingers broken.....	3	1	2	4	5	141	47.0	3.03
Fingers injured.....	4	2	2	3	5	158	39.5	4.04
Hands injured.....	1	-----	1	-----	-----	30	30.0	1.01
Heads injured.....	4	3	1	2	5	207	51.8	4.04
Legs broken.....	17	12	5	28	40	1,605	107.0	17.18
Legs injured.....	15	9	6	13	22	850	60.7	15.15
Ribs broken.....	4	3	1	3	6	152	38.0	4.04
Shoulder injured.....	1	1	-----	-----	1	41	41.0	1.01
Toes broken.....	1	1	-----	1	2	30	30.0	1.01
Wrist injured.....	1	-----	1	-----	-----	35	35.0	1.01
Total.....	99	56	43	97	152	6,096	64.85	100.00

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Acci-dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur-poses		Average number of min-ers	All others em-ployed	Total	By hand	By machine	Killed	Injured
1	LOCAL MINES Kincaid & Mitchell.....	Greenfield.....	50	3, 720	75	3, 845	.....	3, 845	300	140	8	2	10	3, 845	.....	.....

Mines reported for 1912, 1.  
Mines in 1913, 1.

JERSEY COUNTY, SEVENTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Acci-dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur-poses		Average number of min-ers	All others em-ployed	Total	By hand	By machine	Killed	Injured
1	LOCAL MINES Cairns & Botts.....	Brighton.....	.....	1, 400	.....	1, 400	.....	1, 400	200	3	2	5	1, 400	.....	.....	.....

Mines reported for 1912, 1.  
Mines in 1913, 1.

MACOUPIN COUNTY, SEVENTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees			Tons mined		Acci-dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other pur-poses		Average number of min-ers	All others em-ployed	Total	By hand	By machine	Killed	Injured
1	SHIPPING MINES Superior Coal Co., No. 3.....	Gillespie.....	659, 309	.....	178, 525	837, 834	821, 084	16, 750	4, 459	216	.....	675	.....	837, 834	.....	4
2	Superior Coal Co., No. 2.....	..do.....	672, 947	.....	155, 341	828, 288	809, 554	18, 734	4, 526	215	.....	665	.....	828, 288	.....	12
3	Superior Coal Co., No. 1.....	..do.....	534, 017	.....	147, 835	681, 852	662, 715	19, 137	5, 286	212	.....	659	.....	681, 852	.....	6
4	Consolidated Coal Co., No. 14.....	Stamton.....	43, 869	.....	607, 360	651, 229	590, 265	60, 964	4, 265	217	.....	515	.....	651, 229	.....	1
5	Consolidated Coal Co., No. 15.....	Mt. Olive.....	12, 273	.....	447, 928	460, 201	414, 685	45, 516	2, 696	177	.....	451	.....	460, 201	.....	6
6	Royal Colliery Co., No. 1.....	Virden.....	2, 352	71, 312	321, 988	395, 652	363, 713	31, 939	5, 863	205	260	204	464	395, 652	.....	2
7	Girard Colliery Co., No. 5.....	Girard.....	77, 021	150, 213	125, 168	353, 002	341, 696	11, 306	16, 078	221	275	65	350	353, 002	.....	6
8	Madison Coal Corporation, No. 5.....	Mt. Olive.....	100, 195	131, 718	47, 377	279, 290	247, 811	31, 479	1, 396	202	.....	306	.....	279, 290	.....	8
9	Greenidge Coal Co., No. 1.....	Virden.....	14, 945	88, 411	138, 766	242, 122	226, 986	15, 836	9, 467	176	704	71	275	215, 353	.....	1
10	Vivian Colliery Co., No. 1.....	Greenidge.....	29, 937	65, 706	113, 550	209, 213	145, 757	63, 456	.....	174	250	74	324	269, 213	.....	2
11	Consolidated Coal Co., No. 8.....	Mt. Olive.....	118, 604	.....	66, 937	185, 541	121, 235	64, 306	961	205	.....	182	.....	185, 541	.....	2
12	Carlinville Coal Co.....	Carlinville.....	3, 080	44, 605	30, 105	77, 790	55, 374	22, 416	3, 955	180	82	37	119	77, 790	.....	1
Total.....			2, 269, 169	551, 965	2, 380, 880	5, 202, 014	4, 800, 175	401, 839	58, 955	200	1, 071	1, 394	4, 985	855, 338	4, 346, 676	9

MACOUPIN COUNTY, SEVENTH DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees			Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes		Average number of miners	All others employed	Total	By hand	By machine	Killed	Injured
1	E. A. Bauser.....	Bunker Hill.	1,031	3,989	940	5,960	.....	5,960	275	6	3	9	960	5,000	.....	.....
2	John Sipora.....	Chesterfield.	598	.....	.....	598	.....	598	38	3	.....	3	598	.....	.....	.....
3	A. T. Jarden.....	Bunker Hill.	110	.....	.....	110	.....	110	66	3	.....	3	110	.....	.....	.....
	Total.....		1,739	3,989	940	6,668	.....	6,668	126	12	3	15	1,668	5,000	.....	.....
	Total—15 mines.....		2,270,908	555,954	2,381,820	5,208,682	4,800,175	408,507	185	1,083	3,917	5,000	857,006	4,351,676	9	54

Mines reported for 1912, 17.  
Abandoned mines, 2.  
Mines in 1913, 15.

## MONTGOMERY COUNTY, SEVENTH DISTRICT, 1913

SHIPPING MINES																
1	Peabody Coal Co., No. 14.....	Witt.....	137,943	306,672	107,157	551,772	545,731	6,041	4,982	214	452	101	553,551	772	.....	11
2	Shoal Creek Coal Co., No. 1.....	Panama.....	3,103	288,303	251,067	542,473	515,194	27,279	7,503	243	.....	505	505	.....	542,473	1
3	Peabody Coal Co., No. 15.....	Taylor Spgs.....	117,633	143,682	133,688	395,003	388,911	6,092	3,604	193	.....	389	389	3,152	391,851	2
4	Hillsboro Coal Co., No. 11.....	Hillsboro.....	28,456	122,781	200,486	351,723	331,257	20,466	2,836	234	.....	234	234	.....	351,723	1
5	Peabody Coal Co., No. 12.....	Witt.....	201,942	52,299	17,598	271,839	258,151	13,688	2,457	174	230	99	329,271	839	.....	1
6	Peabody Coal Co., No. 11.....	Hillsboro.....	19,029	52,074	17,597	107,070	161,472	5,598	1,240	130	.....	240	240	.....	167,070	2
7	Clover Leaf Coal Co., No. 2.....	Coffeen.....	19,820	24,626	58,070	83,516	76,706	6,810	1,240	116	141	54	195	83,516	.....	3
8	Farmersville Coal Mining Co., No. 1.....	Farmersville.....	7,871	8,045	11,006	26,922	19,122	7,500	1,075	83	33	27	60	26,922	.....	1
9	Litchfield Coal Co., No. 7.....	Litchfield.....	7,885	10,814	9,394	20,593	9,499	11,094	704	157	36	27	63	20,593	.....	1
10	Peabody Coal Co., No. 10.....	Nokomis.....	7,418	.....	.....	7,418	6,166	1,252	.....	100	32	29	61	7,418	.....	3
	Total—10 mines.....		524,600	1,009,296	884,433	2,418,329	2,312,509	105,820	28,841	166	924	1,705	2,629	965,212	1,453,117	5

Mines reported for 1912, 10.  
Mines in 1913, 16.

## RECAPITULATION BY COUNTIES, SEVENTH DISTRICT, 1913

	Greene	Jersey	Macoupin	Montgomery	Total
<b>SHIPPING MINES</b>					
Number of mines.....			12	10	22
Production of different grades in tons—					
Mine run.....			2, 269, 169	524, 600	2, 793, 769
Lump.....			551, 965	1, 009, 296	1, 561, 261
Egg.....			922, 024	288, 869	1, 210, 893
Nut.....			5, 880	17, 981	23, 861
Pea.....			951, 956	575, 437	1, 527, 393
Slack.....			501, 020	2, 146	503, 166
Total.....			5, 202, 014	2, 418, 329	7, 620, 343
Disposition of output in tons—					
Loaded on cars for shipment.....			4, 800, 175	2, 312, 509	7, 112, 684
Other purposes.....			401, 839	105, 820	507, 659
Kegs of powder used blasting coal.....			58, 955	28, 841	87, 796
Days of active operation.....			200	166	185
Employees underground—					
Miners.....			1, 071	924	1, 995
Others.....			3, 400	1, 463	4, 863
Boys.....			135	24	159
Employees above ground.....			379	218	597
Total.....			4, 985	2, 629	7, 614
Tons mined by hand.....			855, 338	965, 212	1, 820, 550
Tons mined by machine.....			4, 346, 676	1, 453, 117	5, 799, 793
Number of machines in use.....			223	58	281
Number of motors in use.....			30	29	59
Number killed.....			9	5	14
Number injured.....			54	45	99
Blasting coal—					
From solid—tons.....			640, 005	131, 031	771, 036
Undercut—tons.....			4, 319, 887	2, 287, 298	6, 607, 185
Both methods—tons.....			242, 122		242, 122
<b>LOCAL MINES</b>					
Number of mines.....	1	1	3		5
Production of different grades in tons—					
Mine run.....	50		1, 739		1, 789
Lump.....	3, 720	1, 400	3, 989		9, 109
Other grades.....	75		940		1, 015
Total.....	3, 845	1, 400	6, 668		11, 913
Kegs of powder used blasting coal.....	300		8		308
Days of active operation.....	140	200	126		144
Number of employees.....	10	5	15		30
Tons mined by hand.....	3, 845	1, 400	1, 668		6, 913
Tons mined by machine.....			5, 000		5, 000
Number killed.....					
Number injured.....					

Whole number of mines reported for 1912, 30.

Number of new mines opened during year, none.

Number of mines abandoned during the year, 3.

Whole number of mines reported for 1913, 27.



## EIGHTH INSPECTION DISTRICT—1913

COUNTIES—BOND, CLINTON, MADISON, MARION. W. L. MORGAN, *Inspector*,  
R. R. 2, EAST ST. LOUIS, ILL.

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Bond, Clinton, Madison, and Marion.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	4
Number of shipping mines.....	29
Number of local mines.....	11
Number of new or re-opened mines.....	....
Number of closed or abandoned mines.....	....
Number of miners.....	2,304
Others underground, men.....	4,490
Boys underground.....	177
Boys above ground.....	6
Others above ground.....	644
Total number of employees.....	7,621
Total tons of coal produced.....	6,347,492
Days of active operation, all mines.....	184
Kegs of powder used for blasting coal.....	114,501
Tons of coal shipped.....	5,828,906
Tons supplied to locomotives.....	161,580
Tons sold to local trade.....	148,996
Tons consumed and wasted at mines.....	208,010
Number of fatal accidents.....	17
Number of non-fatal accidents.....	167
Number of employees to each fatal accident.....	448
Number of employees to each non-fatal accident.....	46
Tons of coal produced to each fatal accident.....	373,382
Tons of coal produced to each non-fatal accident.....	38,009
Ratio of fatal accidents per 1,000 employees.....	2.23

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Bond.....	183,180	231,999	48,819	.....
Clinton.....	1,012,982	1,036,303	23,321	.....
Madison.....	3,454,536	3,890,639	436,103	.....
Marion.....	1,203,947	1,188,551	.....	15,396
Total.....	5,854,645	6,347,492	508,243	15,396
Net.....	.....	.....	492,847	.....

## CHANGE OF OWNERSHIP

Hardin & Stregremeier's mine is now Eli Stregremeier's mine, Worden, Madison County.

Southern Coal & Mining Company is now known as Southern Coal, Coke & Mining Company.

Williams & Newman, Collinsville, Madison County, is now Bunker Hill Coal Company.

## FIRES

The coal washer of the Lumaghi Coal Company was completely destroyed by fire on the morning of January 6, 1913.

## IMPROVEMENTS

The Marion County Coal Company has installed two Goodman electric breast mining machines, one 10-ton Goodman electric motor, two Herzler & Henninger self-dumping cages, and built a supply-house 20 feet by 40 feet. A radical departure from existing methods of preparing coal was made during the year by this company in the installation at Junction City mine, near Centralia, of a Marcus patent picking table screen. This may be described as a shaking screen which, instead of standing at an incline, is placed perfectly level. The peculiar motion imparted to this screen causes the coal to move steadily forward. The screening is done on the upper deck in the manner usual to shaker screens. A lower deck is provided on which the material that has passed through the perforations advances. Valves in the lower deck permit the distribution of the sizes to the various cars. The larger sizes traveling forward on the upper deck at a speed of about 40 feet per minute. In this way all rock and foreign matter is clearly exposed to view and can be picked out by hand. This is work which heretofore has been attempted by the trimmers on the cars with very indifferent results. By means of this Marcus the lump coal can be as carefully cleansed of foreign matter as the finer sizes can be by washing. The installation of this screen marks a long step forward in the preparation of the larger sizes of coal.

The Odin Coal Co., Odin, Marion County, has installed one 125 H.P. 66-in. tubular boiler, one Cochran water heater, one boiler feed Worthington duplex feed plunger pump, one 10-ton Jeffery motor and a new car puller.

The Chicago & Sandoval Coal Company has put in two 7-ton Whitcomb gasoline motors, which at the time of this report, appears to work satisfactorily, and two Herzler & Henninger self-dumping cages at No. 2 mine, Sandoval, Marion County.

The Breese-Trenton Mining Company, Beckemeyer, Clinton County, has widened the escape shaft by 4 feet and put in a stairway from the bottom to the top, and installed a 10-ton Jeffery motor and a car puller at Buxton mine. At East mine this company has displaced the single engine at the escape shaft by putting in a double hoisting engine 10 inches by 22 inches, geared 4 to 1; also one car puller for loads and empties.

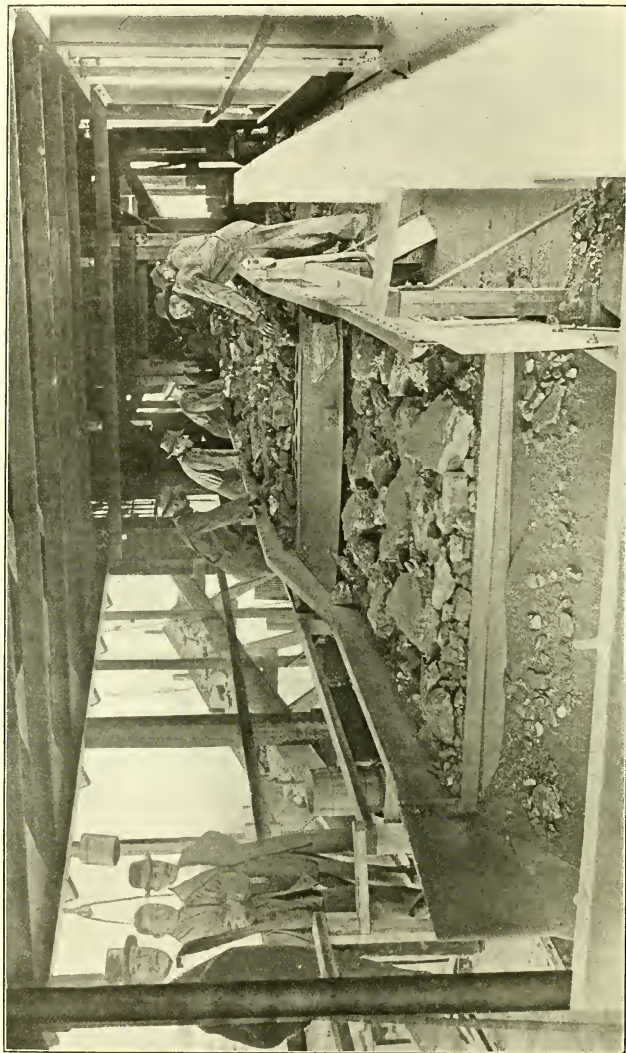
The Southern Coal, Coke & Mining Company at No. 9 mine, New Baden, Clinton County, has put in two Goodman electric breast machines.

The Lumaghi Coal Company, at Mine No. 2, Collinsville, Madison County, has put in fifteen Jeffery short wall electric mining machines. The coal at this mine is now entirely undercut by electric machines. A 7½-ton Goodman motor was also installed.

At the No. 3 mine, a 150 H.P. 72-inch boiler, twenty-six 6-inch flues, and one Sullivan fan, guaranteed to produce 70,000 cubic feet at 1 inch water gauge, have been installed.

Donk Bros. have repaired and strengthened the tower and re-timbered a portion of the hoisting shaft at the No. 1 mine.

At the No. 2 mine, last March, the hub of the sheave wheel broke, which in turn caused the sheave to cant while it was hoisting a load; this allowed the rope to slip out. The rope severed every stay and brace between the



Marion County Coal Company, Centralia. Picking table screen.

uprights and backstays to the engine-house from the shaft, thus practically cutting the headgear in half. The headgear was so badly wrecked that a new headgear was erected after a month's idleness. A 5-foot Booster fan was put in, which greatly benefits that section of the mine. A 15-ton electric motor was also installed.

At the No. 3 mine a 5-foot Booster fan was installed. This makes two Booster fans for this mine, one on each side of the mine. These fans have made a big improvement in the ventilation at the working places of the mine.

At the City Coal Company's mine, Edwardsville, the foundation under the air compressor has been changed from brick to re-enforced concrete. A small generator was also installed to light up the surface and pit bottom.

The Madison Coal Corporation has made quite extensive improvements at its No. 2 and No. 4 mines, Glen Carbon, Madison County.

At the No. 2 mine, the sump and oilhouse have been concreted. The house is a model of neatness—no waste oil on the ground—fitted with a fire-proof door. This company has built a pumphouse, a carpenter shop, paint shop and a warehouse on the surface.

The rescue building at this mine is as fine a building as one could wish for at any mine, with place to keep the apparatus, a smoke chamber and a place to wash. The spirit in which the Madison Coal Corporation has provided the mine rescue apparatus, the helmets, pulmotor, etc., is commendable. At this mine the air courses are being enlarged to conform to a width of 8x9, which, when finished, will greatly increase the efficiency of the ventilation. Eight automatic self-opening and closing doors, twenty-five new air compressed Ingersoll mining machines, 1,800 feet of 4-inch pipe for compressed air, 1,000 feet of 6-inch pipe, two 20 H.P. motors, for prop sawing, operated by electric power, for use underground, were put in. A Hooker pump, for fire protection on top, was installed; also an automatic engine stop was fixed on the engine to prevent overwinding, and a pair of King & Hubles safety detaching hooks put in.

At No. 4 mine the company has concreted the sump, which, like the one at No. 2, will hold three months supply of water; re-timbered the hoisting shaft; enlarged the air courses; erected four self-opening and closing mine doors and a new warehouse; a mine rescue building installed; 1,500 feet of 6-inch pipe put in; a duplex pump for the boilers; an engine stop and a pair of King & Hubles self-detaching safety hooks put in.

The King & Hubles safety detaching hook consists of two outer and two inner plates all pivoted on a center pin. At the top end the link with the rope attached is connected. The chains with the cage are attached to a link at the bottom end; the plates are kept in position by a copper pin, which is rivited on both outside plates. This copper pin is below the center pin. A little below the sheave wheel, a catch plate is provided, which has an opening a little larger than the hook. In case of an overwind, two jaws on the middle plates near the bottom of the hook come in contact with the catch plate; this forces the jaws inward. This action shears the copper pin and allows the plates to open so the rope goes out of the hook. The same instant the jaws on the bottom of the hook are forced inward, jaws on the upper part of the same plates are forced outward, and these jaws rest on the catch plate, keeping the cage in position. This safety hook is provided with an automatic lowering arrangement, which consists of an elongated slot just above the center pin; in case of an overwind, the rope is brought back over the sheave connected to this slot; with a spare shackle the rope is then slightly tightened, which causes the jaws, which rest on the catch plate, to close in. The cage is then lowered to the proper landing, where the rope is again fixed in position in its proper place in the hook, ready for the next overwind.

One bad feature of the district is the increase of non-fatal accidents. However, the mines which have face bosses, who make at least one inspection of every working place every day during working hours, report a decrease of accidents. The increase of non-fatal accidents comes wholly from mines where face bosses are not employed.

The remedy is surely right here with us; we ought to have it embodied in our mining laws, that each mine in this State should have sufficient

number of face bosses, so that every working place can be inspected at least once a day, and I should like it to go further, and that every working place be visited twice a day, once in the morning and once in the afternoon, and these face bosses should have police power.

#### FATAL ACCIDENTS

July 13, 1912, Joseph Bullot, machine runner, aged 37 years, married, was killed by falling slate in the Southern Coal, Coke & Mining Company's No. 9 mine, New Baden, Clinton County. He leaves a widow and three children.

July 29, 1912, Edward Grant, trip rider, aged 22 years, single, employed in the Mt. Olive & Staunton Coal Company's Mine No. 2, Staunton, Madison County, was killed by pit cars.

August 10, 1912, Frank Garboski, miner, aged 26 years, single, was killed by falling slate in the Lumaghi Coal Company's No. 2 mine, Collinsville, Madison County.

August 22, 1912, Charles Heineman, miner, aged 30 years, married, was killed by a shot explosion in the Southern Coal, Coke & Mining Company's No. 9 mine, New Baden, Clinton County. He leaves a widow and two children.

October 11, 1912, Anton Pickors, loader, aged 52 years, married, was killed by falling slate in the Madison Coal Corporation's No. 4 mine, Glen Carbon, Madison County. He leaves a widow and six children.

October 18, 1912, Antonio Kolar, driver, aged 20 years, single, employed in the W. S. Walker mine, Edwardsville, Madison County, was killed by pit cars.

October 19, 1912, S. Schmidt, machine helper, aged 26 years, single, was killed by mining machine in the Mt. Olive & Staunton Coal Company's No. 1 mine, Staunton, Madison County.

November 16, 1912, Henry Harris, machine helper, aged 29 years, married, was killed by falling rock in the Marion County Coal Company's mine, Centralia, Marion County. He leaves a widow and two children.

December 11, 1912, Anton Shotkus, miner, aged 37 years, married, employed in the New Staunton Coal Company's mine, Livingston, Madison County, was killed by coming in contact with a trolley wire. He leaves a widow.

December 20, 1912, Joseph Baca, loader, aged 45 years, married, was killed by falling rock in the No. 4 mine, Madison Coal Corporation. He leaves a widow and eight children.

December 27, 1912, George Stankins, driver, aged 19 years, single, was killed by pit cars in the Lumaghi Coal Company's Mine No. 3, Collinsville, Madison County.

December 29, 1912, Leopold Wrischink, driver, aged 22 years, single, was killed by pit cars in New Staunton Coal Company's No. 1 mine, Livingston, Madison County.

January 14, 1913, Michael Milkrot, machine runner, aged 26 years, single, employed at No. 2 mine, Lumaghi Coal Company, was killed by falling slate.

February 17, 1913, Henry Loch, miner, aged 25 years, single, was killed by falling slate in the No. 1 mine, New Staunton Coal Company, Livingston, Madison County.

March 7, 1913, Mike Polinsky, laborer, aged 19 years, single, employed at No. 1 mine, New Staunton Coal Company, Livingston, Madison County, fell down the shaft and was killed instantly.

March 8, 1913, Balesk Puschelskie, miner, aged 28 years, married, was killed by a fall of slate in the Marion County Coal Company's No. 1 mine, Centralia, Marion County. He leaves a widow.

April 26, 1913, Harry O'Dell, driver, aged 24 years, single, was killed by pit cars in the Northern Coal & Supply Company's mine, Sorento, Bond County.

Respectfully submitted,

W. L. MORGAN

*State Inspector of Mines, Eighth Dist., R. R. 2, E. St. Louis, Ill.*



## FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
July 13	Joseph Bullof	37	Machine runner	New Baden	1		1	3	4	Falling coal
29	Edward Grant	22	Trip rider	Williamson		1				Pit cars
Aug. 10	Frank Garboski	26	Miner	Collinsville		1				Falling slate
22	Charles Heineman	30	do.	New Baden	1		1	2	3	Shot explosion
Oct. 11	Anton Pickors	52	Loader	Glen Carbon	1		1	6	4	Falling slate
18	Antonio Kolar	20	Driver	Edwardsville		1				Pit cars
19	S. Schmidt	26	Machine helper	Staunton		1				Machine
Nov. 16	Henry Harris	29	do.	Centralia	1		1	2	3	Falling coal
Dec. 11	Anton Shatkus	37	Miner	Livingston	1		1	1	1	Electrocuted
20	Joseph Baca	45	Loader	Glen Carbon	1		1	8	9	Falling rock
27	George Stankins	19	Driver	Collinsville		1				Pit cars
29	Leopold Wrischink	22	do.	Livingston		1				do.
1913										
Jan. 14	Michael Milkrot	26	Machine runner	Collinsville		1				Falling slate
Feb. 17	Henry Loch	25	Miner	Livingston		1				do.
Mar. 7	Mike Polinsky	19	Laborer	do.		1				Fell down shaft
8	Balek Puschelskie	28	Miner	Junction City	1		1	1	1	Falling slate
Apr. 26	Harry O'Dell	24	Driver	Sorento		1				Pit cars
	Total				7	10	7	21	25	

## RECAPITULATION OF FATAL CASUALTIES, EIGHTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Centralia	1	Drivers	4	Electrocuted	1	Lumaghi	3
Collinsville	3	Laborer	1	Falling coal	2	Madison Corp.	2
Edwardsville	1	Loaders	2	Falling rock	1	Marion Co.	2
Glen Carbon	2	Machine helpers	2	Falling slate	5	Mt. Olive & Staunton	2
Junction City	1	Machine runners	2	Fell down shaft	1	New Staunton	4
Livingston	4	Miners	5	Machine	1	Northern C. & Supply	1
New Baden	2	Trip rider	1	Pit cars	5	Southern	2
Sorento	1			Shot explosion	1	Walker, W. S.	1
Staunton	1						
Williamson	1						
Total	17		17		17		17

## NON-FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost — days
1912									
July 1	Mark Hawkins	34	Sorento	1		2	3	Body burned, gas explosion	60
1	Arthur Hawkins	30	do.	1		1	2	do.	150
1	Jacob Hribar	21	Livingston		1			Leg broken, pit car	34
6	Wm. Heck	33	Glen Carbon	1				Leg injured, struck with pick	37
12	A. Schosteric	47	Livingston		1			Hand injured, falling coal	30
15	L. Wolf	31	do.	1		4	5	Foot broken, falling rock	196
20	B. Braski	31	Beckemeyer	1				Ankle injured, pit car	30
26	F. Rother	50	Troy	1		5	6	Head injured, falling slate	30
30	Chas. Sack	20	Livingston		1			Ribs broken, pit car	158
Aug. 1	Mike Hruska	43	do.	1		2	3	Leg broken, falling slate	215
2	Joseph Engelhardt	31	Beckemeyer	1		3	4	Back injured, falling rock	30
17	Conrad Schrag	25	New Baden		1			Arm broken, coal fell down shaft	50
19	Henry Leuth	40	Edwardsville	1			1	Finger injured, pit car	37

## NON-FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Aug. 26	Louis Janes	26	Livingston	1	1			Leg broken, falling prop	269
29	C. Callan	40	Troy	1	5			Leg broken, falling slate	120
29	George Pareno	29	Sandoval	1	5			Leg broken, pit car	150
31	Andrew Mahokek	23	Livingston	1	1			Ankle injured, falling bar	46
Sept. 3	Alb. Smuch	38	Glen Carbon	1	2			Foot injured, switch	37
5	J. Giorgo	40	Troy	1	2			Leg injured, mule	50
10	Tom Weir	40	Collinsville	1	5			Ribs broken, falling slate	32
12	C. Duncan	16	do.	1	1			Body injured, pit car	34
13	Henry Wright	21	New Baden	1	1			Arm injured, pit car	*
18	Jesse Essenpries	20	Breese	1	1			Finger injured, pit car	35
21	John Waldon	40	do.	1	1			Foot injured, falling coal	36
27	George Greek	24	Sandoval	1	1			Body injured, kicked by mule	90
Oct. 27	Wm. Kinle	31	Worden	1	1			Foot injured, falling bar	35
3	John Mollocher	54	Glen Carbon	1	1			Body injured, kicked by mule	37
7	Fred Jones		New Baden	1	1			Leg broken, pit car	270
9	Mont Croxton		Sorento	1	1			do.	49
11	Tony Lachinski	40	Glen Carbon	1	4			Leg broken, fell off truck	90
14	Frank Glitz	30	Staunton	1	1			Arm broken, falling clod	78
14	B. Mlekush	53	do.	1	12			Body injured, falling coal	36
16	Wm. Unger	17	do.	1	1			Arm broken, pit car	75
17	Carl Fuhrman	24	Collinsville	1	1			Leg injured, pit car	60
21	Theo. Taphorn	24	Beckemeyer	1	1			Hand injured, pit car	40
22	Walter Moraski	26	Collinsville	1	1			Body injured, pit car	60
22	N. C. Newman	49	O'Fallon	1	4			Body injured, falling coal	107
26	Pet. Austra	40	Livingston	1	5			Leg broken, falling coal	164
29	H. V. Martin	40	Maryville	1	2			Leg injured, falling coal	72
29	Steve Tomkins	30	Collinsville	1	2			Leg injured, pit cars	33
29	James Novy	22	Glen Carbon	1	1			Leg broken, falling rock	150
30	Wm. Thomas	23	do.	1	1			Foot injured, tail chain	90
30	Jas. Davidson	37	Worden	1	1			Hand injured, pit car	34
30	Fred Schreve	29	Sandaval	1	2			Finger broken, kicked by mule	42
31	Joe Dupac	46	Glen Carbon	1	1			Ribs broken, pit cars	45
31	J. J. Fletcher	17	Collinsville	1	1			Ankle broken, pit cars	40
31	Wm. Stenson	39	Terre Haute, Ind	1	1			Foot injured, falling slate	30
Nov. 4	Jos. Geisting	32	Beckemeyer	1	3			Body burned, shot explosion	120
5	Leo Cundiff	28	Pocahontas	1	1			Leg injured, kicked by mule	36
6	Gus Isenberg	25	Troy	1	1			Leg broken, pit cars	98
7	A. Youlkoski	31	Maryville	1	1			Finger injured, hammer	38
7	A. J. Myers		Worden	1	5			Body injured, pit cars	*
9	Otto Reum	28	Pocahontas	1	1			Hand broken, coal fell down shaft	36
9	Joe Bosack	36	Staunton	1	4			Foot injured, machine	58
13	A. Arnostomski	28	Collinsville	1	1			Body burned, lamp	96
16	Geo. East	23	do.	1	1			Ankle broken, pit cars	60
20	Frank Manetz	21	do.	1	1			Body injured, pit cars	37
22	James Frey	46	Worden	1	5			Body injured, falling prop	*
22	C. Krupski	28	Maryville	1	1			Leg injured, pit car	86
25	Fred Sebra	31	Staunton	1	1			Leg broken, falling coal	*
26	Fred Houba	49	Glen Carbon	1	8			Leg broken, falling slate	75
28	Gus Steffenot	34	Collinsville	1	2			Finger injured, machine	57
Dec. 2	James Wallace	39	Worden	1	1			Ankle injured, cage	34
3	Mike Szedrovich	19	Livingston	1	1			Foot injured, pit car	34
3	Pet. Zooph	31	do.	1	1			Body injured, falling slate	*
3	Jas. Rhodes	35	Maryville	1	3			Foot injured, falling coal	40
3	Robert Hohn	30	Collinsville	1	1			Toe cut off, pit car	40
7	Joe Goodart	72	Glen Carbon	1	3			Back injured, falling clod	141
11	Victor Grandy	35	Collinsville	1	1			Arm broken, pit car	44
13	John Mostar	18	Staunton	1	1			Foot injured, pit car	64
13	Dominick Deiro	43	Pocahontas	1	4			Leg injured, falling slate	48
13	Robert McCaulis	24	do.	1	1			Leg injured, falling clod	150
13	Richard Koblhons	46	Collinsville	1	3			Wrist broken, pit car	35
14	Jos. Bianco	40	do.	1	2			Hand injured, falling coal	35
15	Dan Jones, Sr.	42	Worden	1	4			Leg injured, pit car	31
16	Vane Berry	23	do.	1	1			Body injured, pit car	106
16	Joe Schulz	22	Staunton	1	1			Leg broken, pit car	50
16	Paul Ancotti	40	Collinsville	1	3			Head injured, falling slate	45
23	Pete Stephans		Staunton	1	1			Arm broken, struck rock	40
28	O. Loudine	27	Collinsville	1	2			Body injured, pit car	*
30	Goretone Martie	36	do.	1	1			Body injured, struck by bar	180
1913									
Jan. 2	Stanley Solosoky	43	do.	1	5			Finger injured, falling prop	40
4	Andy Petruska	38	Livingston	1	1			Foot injured, falling slate	87
6	Hugh Kennedy	30	Central City	1	1			Leg injured, falling slate	30



## NON-FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
Jan.	7 Jesse Essenpries	21	Breese	1				Shoulder injured, pit car	60
	10 Wm. Bullet	50	New Baden	1			1	Leg broken, falling coal	60
	10 Ben Diekemper	23	Diamondville	1				Foot broken, railroad car	32
	14 Mike Jackatadt	30	Collinsville	1				Leg broken, falling slate	*
	15 Anton Florian	61	Breese	1		5	6	Shoulder injured, pit car	30
	16 Jos Spangler	22	Breese	1		1	2	Finger injured, railroad car	44
	18 Tony Bejner	30	Livingston	1				Body injured, falling coal	55
	21 Joe Burns	26	Collinsville	1				Body injured, kicked by mule	44
	22 Matt Smith	40	Junction City	1				Leg broken, machine	180
	28 Geo. Wadzeta	25	Livingston	1				Finger injured, pit car	46
	29 Pete Bagomic	35	Maryville	1		4	5	Eye destroyed, shot explosion	*
	29 Antoni Fiorino	40	Collinsville	1				Finger injured, falling coal	54
	29 George Gillespie	47	Pocahontas	1		1	2	Leg injured, pit cars	100
	31 Anton Sartori	22	Williamson	1				Ankle injured, falling slate	66
	31 J. Mitchell	27	Breese	1				Hand injured, pit car	34
Feb.	1 Joe Bosack	36	Staunton	1		4	4	Leg broken, falling coal	*
	3 Thos. Kline	46	Glen Carbon	1		5	6	Collar-bone broken, falling coal	56
	3 Tony Lynd	28	Maryville	1		1	2	Finger injured, pit car	53
	7 Clyde Hawley	32	Breese	1		1	2	Body injured, falling slate	42
	10 Louis Heinz	23	Staunton	1			1	Collar-bone broken, kicked by mule	45
	10 W. Goldsmith	43	Maryville	1				Foot broken, falling clod	48
	13 Louis Pittino	25	Collinsville	1			1	Back injured, lifting weight	36
	14 John Melshy	32	Livingston	1		1	2	Ankle injured, falling slate	32
	17 Hy Oelshlager	28	New Baden	1			1	Toe broken, pit car	30
	18 Hy Younkus	35	Maryville	1		4	5	Foot broken, falling coal	42
	18 H. Rissi	40	Collinsville	1		5	6	Hand injured, machine	43
	21 N. P. Sloan	50	Odin	1		4	2	Eye injured, pick	60
	22 Andrew Harcharik	32	Williamson	1		4	5	Eye injured, machine	*
	24 George Marshall	45	Central City	1		6	7	Leg injured, cage	32
	27 J. Vaina	22	Collinsville	1				Head injured, falling coal	33
	27 Joe Rosal	41	Maryville	1				Wrist injured, struck by bit	34
	27 Sam Bartnick	36	Glen Carbon	1		3	4	Finger injured, falling coal	35
	28 Florian Poliak	21	Staunton	1				Body injured, falling clod	38
	28 B. Foppe	24	Breese	1		1	2	Wrist injured, axe	31
Mar.	4 Wm. Anderson	21	Sandoval	1				Leg injured, pit car	42
	5 B. Moss	26	Breese	1				Back injured, pit car	30
	6 Thos. Holmes	50	Williamson	1				Back injured, falling slate	60
	10 Mike Exonovich	28	Livingston	1				Toes injured, machine	34
	12 Joe Boyl	36	Glen Carbon	1				Back injured, falling slate	42
	15 Louis Giger	19	Collinsville	1				Hand injured, pit car	75
	19 Pete Lera	40	Livingston	1		7	8	Finger injured, machine	60
	20 Joe Kolesa	43	Staunton	1		5	6	Leg injured, lifting weight	*
	21 James Smith	45	Sandoval	1				Leg injured, falling slate	60
	21 Sam Ellis	40	Collinsville	1		1	2	Body injured, pit car	52
	25 R. Laird	40	do	1		1	1	Finger injured, machine	31
	27 John Kilner	17	do	1				Arm injured, pit car	33
	27 Harry Brown	23	Glen Carbon	1		2	3	Hand injured, pit car	35
	31 George Wenig	48	Staunton	1				Foot broken, falling coal	*
Apr.	2 Frank Lamb	26	Worden	1				Arm broken, pit car	87
	8 John Deppe	36	Staunton	1				Body injured, pit car	30
	11 Wm. Marshall	22	Central City	1				Arm broken, coal fell down shaft	40
	11 Duesy Richardson	27	Sandoval	1		2	3	Back injured, falling slate	45
	13 Edward Kennedy	35	do	1		2	3	Rib broken, kicked by mule	42
	21 Wm. Bishop	46	Breese	1		4	4	Body injured, falling rock	72
	22 Ernst Rawie	27	Staunton	1				Leg broken, falling coal	*
	24 Lewis Wilson	47	Odin	1		3	2	Back injured, falling slate	60
	24 Frank Prohaska	60	Glen Carbon	1				Foot broken, falling coal	72
	25 Peter Bertot	34	Collinsville	1		3	4	Foot injured, falling slate	32
	29 Wm. Best	36	do	1		3	4	Wrist broken, kicked by mule	33
	29 Fred Lochmeier	34	Worden	1				Eye injured, bursting bottle	67
May	2 F. Burhorn, Jr	30	Breese	1		2	3	Foot broken, railroad car	45
	2 J. N. Smith	64	Staunton	1				Body injured, railroad car	*
	2 Wm. Eller	16	do	1				Leg broken, pit car	*
	2 John Fenton	22	do	1				Finger broken, pit car	34
	6 D. C. Costantino	29	Pocahontas	1				Shoulder injured, falling clod	55
	7 Harry Brown	23	Edwardsville	1		2	3	Hand broken, pit cars	47
	9 Joe Novah	37	Glen Carbon	1		3	4	Head injured, fell off cart	30
	15 Thomas Jones	56	do	1				Leg injured, falling wheel	51
	16 Charles Biggins	26	Pocahontas	1				Body injured, kicked by mule	47
	15 Ben Crane	23	do	1		1	2	Leg injured, pit car	80
	16 Bartel Jakos	25	Staunton	1				Foot injured, machine	*
	23 Wm. Baur	40	Troy	1				Hand injured, axe	40

NON-FATAL CASUALTIES, EIGHTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
May 24	Fred Olshafsky.....	20	Staunton.....	1	1	2	3	Arm broken, pit cars.....	30
26	Ben Ratevinan.....	28	Breese.....	1	1	1	3	Fingers cut off, pit cars.....	35
27	Paul Vigloski.....	42	Pocahontas.....	1	1	1	1	Leg broken, falling clod.....	*
27	Geo. Placketes.....	24	Livingston.....	1	1	1	1	Leg broken, machine.....	*
31	Henry Steffinot.....	30	Collinsville.....	1	1	1	1	Leg injured, machine.....	31
June 12	Luther Ward.....	26	Herrin.....	1	1	1	2	Body injured, motor.....	*
12	Charles Byrd.....	21	Sandoval.....	1	1	1	2	Leg broken, pit car.....	*
14	Ben Kohnen.....	22	Collinsville.....	1	1	1	1	Head injured, falling slate.....	32
20	Cary Seibert.....	26	Glen Carbon.....	1	1	2	3	Rib broken, pit car.....	31
26	John Sminchok.....	40	Williamson.....	1	1	6	7	Back injured, falling slate.....	30
28	L. A. Grider.....	23	Sandoval.....	1	1	1	1	Hand injured, pit car.....	*
	Total.....			99	68	236	307		

\* Not returned to work.

Total number injured.....	167	Time lost by men returned to work, days..	8,902
Number not returned, July 1.....	20	Average days lost.....	60.56
Number returned to work.....	147		

## RECAPITULATION OF NON-FATAL CASUALTIES, EIGHTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Beckemeyer.....	4	Cagers.....	7	Axe.....	2	Breese-Trenton.....	5
Breese.....	12	Cartrimmer.....	1	Bursting bottle.....	1	Chicago-Sandoval.....	9
Central City.....	3	Couplers.....	2	Cage.....	2	City Coal Co.....	1
Collinsville.....	32	Drivers.....	41	Coal fell down shaft.....	3	Consolidated.....	10
Diamonville.....	1	Laborers.....	11	Falling bar.....	2	DeCamp.....	5
Edwardsville.....	2	Loaders.....	25	Falling clod.....	5	Donk Bros.....	28
Glen Carbon.....	17	Machine helpers.....	16	Falling coal.....	22	Kerns-Donnewald.....	8
Herrin.....	1	Machine runners.....	5	Falling rock.....	4	Lumaghi.....	20
Junction City.....	1	Mechanics.....	2	Falling slate.....	23	Madison Corp.....	16
Livingston.....	17	Miners.....	40	Falling timber.....	3	Marion Co.....	5
Maryville.....	9	Motormen.....	2	Falling wheel.....	1	Mt. Olive & Staunton.....	18
New Baden.....	5	Shot firer.....	1	Fell off cart.....	1	New Staunton.....	19
Odin.....	2	Spragger.....	1	Fell off truck.....	1	North Breese.....	4
O'Fallon.....	1	Timbermen.....	3	Gas explosion.....	2	Northern C. & Sup.....	3
Pocahontas.....	9	Trackmen.....	2	Hammer, struck by.....	1	Odin.....	2
Sandoval.....	9	Trappers.....	3	Lamp.....	1	Pocahontas.....	9
Sorento.....	3	Trip riders.....	2	Lifting weight.....	2	Southern.....	5
Staunton.....	20			Machine.....	11		
Terre Haute, Ind.....	1			Motor.....	1		
Troy.....	5			Mule, kicked by.....	10		
Williamson.....	4			Pit cars.....	56		
Worden.....	9			Railroad cars.....	4		
				Shot explosion.....	2		
				Struck by bar.....	1		
				Struck by bit.....	1		
				Struck by pick.....	2		
				Struck rock.....	1		
				Switch.....	1		
				Tail chain.....	1		
Total.....	167		167		167		167

RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CON-  
JUGAL RELATIONS AND TIME LOST, EIGHTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankles broken.....	2	—	2	—	—	100	50.0	1.20
Ankles injured.....	5	3	2	2	5	208	41.6	2.99
Arms broken.....	8	2	6	1	3	444	55.8	4.79
Arms injured.....	2	1	1	—	1	31	31.0	1.20
Backs injured.....	9	6	3	17	18	510	56.7	5.39
Bodies burned.....	4	3	1	6	9	426	106.5	2.39
Bodies injured.....	23	11	12	35	45	1,011	56.2	13.77
Collar bones broken.....	2	2	—	5	7	101	50.5	1.20
Eye destroyed.....	1	1	—	4	5	—	—	.60
Eyes injured.....	3	3	—	8	8	127	63.5	1.79
Feet broken.....	7	4	3	10	14	435	72.5	4.19
Feet injured.....	12	6	6	15	21	543	49.5	7.19
Fingers broken.....	2	1	1	2	3	76	38.0	1.20
Fingers cut off.....	1	1	—	2	3	35	35.0	.60
Fingers injured.....	12	8	4	20	22	543	45.3	7.19
Hands broken.....	2	2	—	3	4	83	41.5	1.20
Hands injured.....	9	4	5	10	12	331	41.4	5.39
Heads injured.....	6	5	1	11	18	205	34.2	3.59
Legs broken.....	23	12	11	35	45	1,974	131.6	13.77
Legs injured.....	19	14	5	28	37	1,029	57.2	11.38
Ribs broken.....	5	4	1	10	9	308	61.6	2.99
Shoulders injured.....	3	1	2	5	6	145	48.3	1.79
Toes broken.....	1	1	—	—	1	30	30.0	.60
Toes cut off.....	1	1	—	—	1	40	40.0	.60
Toes injured.....	1	—	1	—	—	34	34.0	.60
Wrists broken.....	2	2	—	6	8	68	34.0	1.20
Wrists injured.....	2	1	1	1	2	65	32.5	1.20
Total.....	167	99	68	236	307	8,902	60.56	100.00

## BOND COUNTY, EIGHTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kegs of powder use for blasting coal	Days of active operation	Employees		Tons mined		Acci- dents		
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other pur- poses	Average number of min- ers	All others em- ployed	Total	By hand	By machine	Killed
SHIPPING MINES																
1	Pocahontas Mining Co., No. 1.....	Pocahontas..	7, 240	74, 998	57, 545	139, 783	132, 486	7, 297	6, 691	120	45	165	139, 783	.....	.....	9
2	Northern Coal & Supply Co.....	Sorento.....	13, 942	22, 047	56, 227	92, 216	88, 017	4, 199	4, 500	93	35	128	92, 216	.....	.....	3
Total—2 mines.....			21, 182	97, 045	113, 772	231, 999	220, 503	11, 496	11, 191	213	80	293	231, 999	.....	.....	12

Mines reported for 1912, 2.  
Mines in 1913, 2.

## CLINTON COUNTY, EIGHTH DISTRICT, 1913

SHIPPING MINES																
1	So. C. C. & M. Co., New B No. 9.....	New Baden..	119, 818	.....	247, 801	367, 619	340, 530	27, 089	2, 929	186	409	409	.....	367, 619	2	5
2	Breese-Trenton M. Co., E. Mine.....	Breese.....	64, 267	59, 842	112, 776	236, 885	169, 945	66, 890	8, 852	250	66	234	.....	236, 885	.....	2
3	North Breese C. & M. Co., N. Mine.....	do.....	33, 407	123, 822	77, 867	235, 096	231, 718	3, 378	6, 425	200	92	189	281	134, 977	100, 119	4
4	Consolidated Coal Co., W. Mine.....	do.....	523	84, 440	38, 223	120, 186	111, 408	8, 780	5, 116	115	49	194	120, 186	.....	.....	10
5	Breese-Trenton Mining Co., Buxton.....	do.....	25, 958	21, 848	28, 711	76, 517	70, 588	5, 932	2, 520	88	55	197	76, 517	.....	.....	3
Total—5 mines.....			243, 973	289, 952	502, 378	1, 036, 303	924, 234	112, 069	25, 842	168	706	1, 315	331, 680	704, 623	2	24

Mines reported for 1912, 5.  
Mines in 1913, 5.

## MADISON COUNTY, EIGHTH DISTRICT, 1913

SHIPPING MINES																
1	New Staunton Coal Co., No. 1.....	Livingston....	135, 923	285, 722	427, 070	848, 715	838, 359	10, 356	6, 343	212	590	590	.....	848, 715	4	19
2	Mt. Olive & Staunton C. Co., No. 2.....	Staunton.....	15, 544	287, 519	214, 947	518, 010	505, 045	12, 965	2, 720	146	547	547	.....	518, 010	1	11
3	Lumaght Coal Co., No. 2.....	Collinsville....	.....	172, 193	203, 605	377, 798	370, 273	7, 525	3, 986	175	439	439	.....	377, 798	2	19
4	Donk Bros. C. & C. Co., No. 2.....	Maryville.....	9, 408	203, 103	148, 638	301, 169	346, 672	14, 397	4, 991	174	247	472	53, 166	308, 003	.....	15

5 Donk Bros. C. & C. Co., No. 1.....	8,690	156,852	144,290	309,832	301,654	8,178	14,455	169	228	111	339,309,832	8
6 Madison Coal Corporation, No. 2.....	57,038	155,532	152,914	265,504	250,176	15,928	2,566	184	13	229	312,26,500	10
7 DeCamp Coal M. Co., Shaft 1.....	10,349	51,349	171,291	282,574	228,551	4,423	1,806	217	130	65	239,004	2
8 Donk Bros. C. & C. Co., No. 3.....	1,337	107,122	78,666	187,125	176,425	10,700	6,302	174	185	195	351,187,125	5
9 Kerns-Donewald Coal Co., K. D.....	1,510	82,383	102,199	185,092	178,261	6,831	1,587	204	166	209	351,187,125	5
10 Madison Coal Corp., No. 4.....	29,196	103,952	34,665	167,813	138,607	9,263	2,822	138	58	209	285,105,806	8
11 Mt. Olive and Staunton Coal Co., No. 1.....	31,979	59,519	53,483	144,948	103,063	10,036	997	87	148	334	144,981	7
12 Collinsville.....	13,863	25,904	39,384	80,151	74,903	5,248	475	105	148	148	80,151	1
13 Lumaghi Coal Co., No. 3.....	10,000	25,000	18,000	63,000	60,000	3,000	600	151	5	76	10,000	1
14 W. S. Walker, Henrietta.....	16,487	16,117	15,002	47,636	29,244	18,392	498	201	34	96	4,281	1
15 Edwardsville Home Trade C. Co., H. T.....	32,582	6,000	4,570	32,582	13,482	19,100	1,435	218	21	17	32,582	1
16 Brookside Coal Co.....				10,570	7,040	3,530	530	120			38,10,570	
Total.....	372,911	1,749,297	1,710,744	3,892,952	3,673,640	159,312	52,170	169	904	3,573	4,477,739,862	12
LOCAL MINES												
1 Hydraulic Press Brick Co.....	16,534			16,534		16,534	485	220	8	6	14,16,534	
2 Abby Coal Corporation.....	2,738			13,692		13,692	376	305	15	5	20,13,692	
3 East Side Coal Co.....	6,086	3,225	1,432	10,743		10,743	349	208	7	4	11,10,743	
4 Bullock Bros.....	805	3,455	1,307	4,568		4,568	133	261	6	2	8,4,568	
5 Bunker Hill Coal Co.....	2,000	2,200	300	4,500		4,500	40	250	7	2	9,4,500	
6 George Kabel.....	2,000			2,000		2,000	25	200	4	1	5,2,000	
7 Peter W. Myer.....	1,700			1,700		1,700	25	210	4	1	5,1,700	
8 Bethalto.....	1,700			1,700		1,700	170	170	4	1	5,1,700	
9 Bend. Eccles.....	1,000			1,000		1,000	30	200	3	1	4,1,000	
10 Yager Coal Co.....	700	150		850		850	50	200	2	1	3,850	
11 Ed. Stiegemeler.....	400			400		400	2	40	5	1	6,400	
Total.....	31,864	20,896	4,927	57,687		57,687	1,515	206	65	25	90,53,187	
Total—27 mines.....	404,775	1,770,193	1,715,671	3,890,639	3,673,640	216,999	53,685	184	969	3,598	4,567,793,019	12

Mines reported for 1912, 27.  
Mines in 1913, 27.

MARION COUNTY, EIGHTH DISTRICT, 1913

1 Marion Co. Coal Co.....	132,160	91,648	166,298	390,106	382,306	7,800	4,877	203	422	422	390,106	5
2 Chi.-Sandoval Coal Co., No. 2.....	17,378	102,154	82,035	201,567	193,264	8,303	6,355	208	165	64	229,201,567	9
3 Odin Coal Co., Odin.....	96,960	55,960	44,138	197,088	182,998	14,000	1,852	246	213	213	197,088	2
4 Centralia Coal Co., No. 2.....	25,105	18,475	123,936	167,516	58,293	109,223	4,172	156	185	87	272,167,516	
5 Centralia Coal Co., No. 4.....	102,883	9,217	35,559	147,689	117,119	30,570	4,005	147	58	203	147,689	
6 Chi.-Sandoval Coal Co.....	5,423	43,387	33,805	84,615	76,949	8,066	2,522	223	78	29	107,84,615	
Total—6 mines.....	379,909	322,871	485,771	1,188,551	1,010,528	178,022	23,783	197	573	873	1,446,601,387	2
Total.....												

Mines reported for 1912, 6.  
Mines in 1913, 6.

## RECAPITULATION BY COUNTIES, EIGHTH DISTRICT, 1913

	Bond	Clinton	Madison	Marion	Total
SHIPPING MINES					
Number of mines.....	2	5	16	6	29
Production of different grades in tons—					
Mine run.....	21, 182	243, 973	372, 911	379, 909	1, 017, 975
Lump.....	97, 045	289, 952	1, 749, 297	322, 871	2, 459, 165
Egg.....	24, 266	199, 256	444, 312	176, 542	844, 376
Nut.....	19, 981	46, 900	120, 720	15, 676	203, 277
Pea.....	69, 319	200, 399	911, 939	196, 451	1, 378, 108
Slack.....	206	55, 823	233, 773	97, 102	386, 904
Total.....	231, 999	1, 036, 303	3, 832, 952	1, 188, 551	6, 289, 805
Disposition of output in tons—					
Loaded on cars for shipment.....	220, 503	924, 234	3, 673, 640	1, 010, 529	5, 828, 906
Other purposes.....	11, 496	112, 069	159, 312	178, 022	460, 899
Kegs of powder used blasting coal.....	11, 191	25, 842	52, 170	23, 783	112, 986
Days of active operation.....	187	168	169	197	176
Employees under ground—					
Miners.....	213	549	904	573	2, 239
Others.....	47	626	3, 106	711	4, 480
Boys.....	7	20	106	42	185
Employees above ground.....	26	120	361	120	627
Total.....	293	1, 315	4, 477	1, 446	7, 531
Tons mined by hand.....	231, 999	331, 680	739, 862	601, 387	1, 904, 928
Tons mined by machine.....		704, 623	3, 093, 090	587, 164	4, 384, 877
Number of machines in use.....		39	190	19	248
Number of motors in use.....		16	25	13	54
Number killed.....	1	2	12	2	17
Number injured.....	12	24	115	16	167
Blasting coal—					
From solid—tons.....	231, 999	433, 588	540, 109	601, 387	1, 807, 083
Undercut—tons.....		367, 619	2, 387, 721	587, 164	3, 342, 504
Both methods—tons.....		235, 096	905, 122		1, 140, 218
LOCAL MINES					
Number of mines.....			11		11
Production of different grades in tons—					
Mine run.....			31, 864		31, 864
Lump.....			20, 896		20, 896
Other grades.....			4, 927		4, 927
Total.....			57, 687		57, 687
Kegs of powder used blasting coal.....			1, 515		1, 515
Days of active operation.....			206		206
Number of employees.....			90		90
Tons mined by hand.....			53, 187		53, 187
Tons mined by machine.....			4, 500		4, 500
Number killed.....					
Number injured.....					

Whole number of mines reported for 1912, 40.

Number of new mines opened during year, none.

Number of mines abandoned during the year, none.

Whole number of mines reported for 1913, 40.

## NINTH INSPECTION DISTRICT—1913

COUNTY—ST. CLAIR. WALTON RUTLEDGE, *Inspector*, ALTON

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing county of St. Clair.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	1
Number of shipping mines.....	50
Number of local mines.....	15
Number of new or re-opened mines.....	2
Number of closed or abandoned mines.....	12
Number of miners.....	2,282
Others underground, men.....	2,869
Boys underground.....	66
Boys above ground.....	7
Others above ground.....	483
Total number of employees.....	5,707
Total tons of coal produced.....	4,740,212
Days of active operation, all mines.....	160
Kegs of powder used for blasting coal.....	100,283
Tons of coal shipped.....	4,234,481
Tons supplied to locomotives.....	101,271
Tons sold to local trade.....	212,647
Tons consumed and wasted at mines.....	191,813
Number of fatal accidents.....	9
Number of non-fatal accidents.....	41
Number of employees to each fatal accident.....	634
Number of employees to each non-fatal accident.....	139
Tons of coal produced to each fatal accident.....	526,690
Tons of coal produced to each non-fatal accident.....	115,615
Ratio of fatal accidents per 1,000 employees.....	1.58

The following table gives the total tonnage for the years 1912 and 1913, with increase:

County	Total output—tons		Increase	Decrease
	1912	1913		
St. Clair.....	4,516,548	4,740,212	223,664	.....

### NEW MINES

A new coal stripping has been put in operation during the year. It will be known as the Fisher Fuel Company, with general office in the Liggett Building, St. Louis, Mo.

It is located three miles east of Millstadt, on the southern outcrop of coal seam No. 6, St. Clair County. The coal seam is found about 6 feet thick, with a covering of from 2 to 16 feet of clay and slate. Two steam



shovels are used, one for stripping, the other for cutting out the coal at its full thickness; a narrow gauge railroad has been built from the terminus of the Mobile & Ohio Railroad to the stripping. Two small locomotives are used for taking the coal from the stripping to Millstadt, where it is loaded into cars for transportation to St. Louis and other points. This company intends to build a screening and sizing plant at Millstadt, for the purpose of properly cleaning the coal, and making the various grades for the market.

The Kolb Coal Company has opened a mine, to be known as No. 2, near Mascoutah.

#### ABANDONED MINES

The Dewey Coal Company, Gartside mine, near Belleville; the Hartman mine, operated by John White & Son, Swansee; the International Coal & Mining Company's Bennett mine, near Lebanon; the Egyptian Coal & Mining Company's Oak Ridge mine, east of Marissa, have been abandoned, and the following have not been in operation this year: Southern Coal, Coke & Mining Co., Nos. 3, 4 and 6; the Royal Coal & Mining Co.; Frank Sargent & Son; the Sunlight Coal Co.; Emil Kramer, Caseyville, and St. Laboria Coal Co., St. Laboria.

#### CHANGE OF NAME

T. M. Meek mine is now operated by the Egyptian Coal & Mining Co.; the Avery Coal Company's Randle mine is now owned by the Mulberry Hill Coal Co., known as No. 2; the Wilharmil Coal & Coke Company's mine is now owned by John White & Son, and known as the White Coal Co.; the Glendale Coal & Mining Company is now operated by the Oakdale Coal & Mining Co.; Missouri & Illinois Coal Co., St. Clair mine, is now St. Clair Coal Company; the local mine operated last year by Charles Avona is now operated by Serth and Walters; the mine operated by William Ahrens is now operated by Fred Weisner; Lippert Bros. mine at Millstadt is now operated by Pistor & Lippert.

#### FIRE AT MINES

The top works of the Maul Coal Company's mine were destroyed by fire May 24, 1913. On July 28, 1912, fire destroyed the engine-house, boiler-house and tippie at the Egyptian Coal & Mining Company's Oak Ridge mine, Marissa.

#### IMPROVEMENTS

The Taylor Coal Company installed a first motion Litchfield hoisting engine at the Ridge Prairie mine, and put in a gasoline haulage motor at the Taylor mine.

The International Coal and Mining Company installed another boiler at the Carbon mine.

The Southern Coal, Coke & Mining Company re-timbered the No. 6 mine, and installed a gasoline haulage motor at No. 8 mine.

The Suburban Coal Company has installed a gasoline haulage motor, and put in chain haulage to elevate and transfer the empty cars around the shaft bottom.

The Oakdale Coal Company has put in improved Shaker screens.

The Mulberry Hill Mine No. 2, and the mines of the Missouri and Illinois Coal Co., and the John Groome Coal Company have been re-timbered.

The Edgemont Coal Company has installed an electric mining machine, re-timbered the hoisting shaft, put in a new boiler, a new fan, and erected a new tippie.

The Pioneer Coal Company has erected a new fan at the air shaft and put in a coal crusher and elevator.

#### FATAL ACCIDENTS

August 25, 1912, Matthew Gibson, miner, aged 43 years, married, died from injuries received August 24 by fall of slate in the Jones Brothers' Eureka No. 1 Mine, Marissa. He leaves a widow and one child.

September 3, 1912, William Boden, driver, aged 22 years, single, was killed by falling under a mine car in the Prairie Coal Company's mine near O'Fallon.

October 5, 1912, Charles Pfaff, motorman, aged 34 years, married, was killed in the Kolb Coal Company's mine, Mascoutah, by being caught between the coal rib and the motors. He leaves a widow and four children.

November 20, 1912, Jesse Burris, miner, aged 56 years, married, died from injuries received by a fall of slate November 19 in the Kolb Coal Company's mine, Mascoutah. He leaves a widow.

January 2, 1913, James Lively, miner, aged 35 years, married, was killed by a fall of slate in the Mulberry Hill Coal Company's mine near Freeburg. He leaves a widow and four children.

February 8, 1913, James Walker, fireman, aged 28 years, single, came to his death at the St. Louis & O'Fallon Coal Company's No. 2 mine by falling into a tank of boiling water.

April 1, 1913, Lindsey Scott, laborer, aged 28 years, married, died from injuries received March 25, by being caught by railroad cars at the Southern Coal, Coke & Mining Company's No. 7 mine, Miller Station. He leaves a widow.

May 22, 1913, Edward South, miner, aged 35 years, single, was killed by being struck by a prop, which was knocked out by falling coal, in the Southern Coal, Coke & Mining Company's No. 8 mine, Shiloh.

June 2, 1913, Fred Hildebrand, miner, aged 64 years, married, was killed by a fall of slate in the Kolb Coal Company's Mine No. 1, Mascoutah. He leaves a widow.

Respectfully submitted,

WALTON RUTLEDGE

State Inspector of Mines, Ninth District, Alton, Ill.

### FATAL CASUALTIES, NINTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Aug. 25	Matthew Gibson	43	Miner	Marissa	1		1	1	2	Falling slate
Sept. 3	Wm. Boden	22	Driver	O'Fallon		1				Pit car
Oct. 5	Chas. Pfaff	34	Motorman	Mascoutah	1		1	4	5	Motor
Nov. 20	Jessie Burris	56	Miner	do.	1		1		1	Falling slate
1913										
Jan. 2	James Lively	35	do.	Freeburg	1		1	4	5	do.
Feb. 8	James Walker	28	Fireman	Belleville		1				Fell into tank of boiling water
Apr. 1	Lindsey Scott	28	Laborer	do.	1		1		1	Railroad cars
May 22	Edward South	35	Miner	do.		1				Falling prop
June 2	Fred Hildebrand	64	do.	Mascoutah	1		1		1	Falling slate
	Total				6	3	6	9	15	

### RECAPITULATION OF FATAL CASUALTIES, NINTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Belleville	3	Driver	1	Falling prop	1	Jones Bros	1
Freeburg	1	Fireman	1	Falling slate	4	Kolb	3
Marissa	1	Laborer	1	Fell into tank boiling water	1	Mulberry Hill	1
Mascoutah	3	Miners	5	ing water	1	Prairie	1
O'Fallon	1	Motorman	1	Motor	1	St. Louis & O'Fallon	1
				Pit cars	1	Southern	2
				Railroad cars	1		
Total	9		9		9		9

## NON-FATAL CASUALTIES, NINTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost, days
1912									
July 29	Jas. Rainey	30	East St. Louis	1				Hand injured, hammer	40
29	Jos. Lundak	41	Collinsville	1				Leg injured, pit car	165
Aug. 13	Herman Carr	40	Belleville	1				Leg broken, falling slate	60
Sept. 3	Wm. Poweff	74	Caseyville	1		5	6	Foot injured, falling slate	55
Aug. 9	Frank Pakusky	33	Belleville	1		1		Back injured, falling slate	30
18	Roy Gibbons	24	do.	1		2	3	Eye injured, flying wood	60
20	Frank Karvelet	21	Collinsville	1		1		Hand injured, falling coal	30
Sept. 7	Sam Rammatt	46	do.	1		8	9	Body injured, fell down	40
17	John Giles	38	do.	1		2	3	Body injured, falling rock	30
23	Chas. Schlak	60	do.	1		1	2	Back injured, lifting weight	40
Oct. 3	Hiram Woodward	24	Belleville	1		1		Wrist broken, pit car	35
3	Ed. Clark, Sr.	53	Collinsville	1		5	6	Body injured, pit car	60
9	Hy Biehlmán	53	Belleville	1		4	5	Arm broken, pit car	30
14	Wm. Bruin	25	do.	1		1		Hand broken, pit car	92
19	Wm. Powell	58	do.	1		4	5	Arm injured, falling bar	40
24	John Helmskamp	30	Trenton	1		1		Hand injured, falling clod	45
25	Hy Webster	36	Collinsville	1		1		Fingers broken, motor	39
Nov. 25	L. Bieher	27	do.	1		1	2	Hand injured, coal fell down shaft	40
13	Geo. Wamser	46	Belleville	1		4	5	Leg broken, pit car	139
13	Gomer Davis	30	Rentchler	1		1		Foot broken, falling slate	31
21	Edgar Lipe	25	Collinsville	1		1		Leg injured, kicked by mule	32
28	Conrad Stehl	32	Lengburg	1		2	3	Eye destroyed, flying steel	60
Dec. 28	Ed. Smith	48	Collinsville	1		2	3	Hand burned, electric wire	40
3	Frank Trikar	54	do.	1		2	3	Back injured, lifting weight	43
1913									
Jan. 4	Peter Malter	49	do.	1		2	3	Hand injured, coal fell down shaft	60
15	Elmer Koch	20	Trenton	1		1		Arm broken, pit cars	35
17	Rudolph Zapt	27	Collinsville	1		1		Body injured, pit cars	43
18	Joe E. McDonald	53	Trenton	1		1	2	Foot broken, falling coal	40
Feb. 3	Chas. Ablinger	55	do.	1		3	4	Body injured, falling coal	60
4	Hy Helmskamp	60	do.	1		2	3	Finger cut off, falling coal	45
13	Hy Kenny	39	Caseyville	1		3	4	Arm injured, pit car	142
18	Hy Busckans	37	Belleville	1		2	3	Wrist broken, coal fell down shaft	60
20	P. W. Wilson	52	East St. Louis	1		7	8	Body injured, lifting weight	130
24	Jos. Straub	31	Belleville	1		4	5	Finger broken, machine	32
27	Chas. Hagenbush	27	Collinsville	1		1		Leg injured, pit car	30
28	Wm. Karning	54	Belleville	1		2	3	Body injured, falling coal	33
Mar. 17	Andy Carbon	36	Collinsville	1		2	3	Foot injured, machine	53
Apr. 5	Ed. McCoy	33	do.	1		1	2	Leg injured, falling clod	54
May 13	L. Fallinius	43	do.	1		6	7	Body burned, powder explosion	37
19	Edgar Lipe	25	do.	1		1		Leg injured, pit car	30
19	Frank Kaweld	21	do.	1		1		Head injured, falling rock	*
	Total			25	16	77	102		

\* Not returned to work.

Total number injured	41	Total time lost by men returned, days	2,160
Not returned to work, July 1	1	Average days lost	54.0
Number returned to work	40		

## RECAPITULATION OF NON-FATAL CASUALTIES, NINTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Belleville.....	11	Blacksmith.....	1	Coal fell down shaft..	3	Breese-Trenton.....	5
Caseyville.....	2	Cagers.....	5	Electric wire.....	1	Consolidated.....	17
Collinsville.....	19	Carpenter.....	1	Falling bar.....	1	Missouri & Illinois...	1
East St. Louis...	2	Drivers.....	5	Falling clod.....	2	St. Louis & O'Fallon.	10
Lenzburg.....	1	Laborers.....	5	Falling coal.....	5	Southern.....	7
Rentchler.....	1	Loaders.....	6	Falling rock.....	2	Tirrie.....	1
Trenton.....	5	Machine helper.....	1	Falling slate.....	4		
		Machine runners.....	3	Fell down.....	1		
		Mechanic.....	1	Flying steel.....	1		
		Miners.....	6	Flying wood.....	1		
		Motorman.....	1	Hammer.....	1		
		Timbermen.....	4	Lifting weight.....	3		
		Trackman.....	1	Machine.....	2		
		Trip rider.....	1	Motor.....	1		
				Mule, kicked by.....	1		
				Pit cars.....	11		
				Powder explosion.....	1		
Total.....	41		41		41		41

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS AND TIME LOST, NINTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost days		Percent- age of injuries
						Total	Average	
Arms broken.....	2	1	1	4	5	65	32.5	4.88
Arms injured.....	2	2		7	9	182	91.0	4.88
Backs injured.....	3	2	1	3	5	113	37.7	7.32
Body burned.....	1	1		6	7	37	37.0	2.44
Bodies injured.....	7	6	1	27	33	396	56.6	17.06
Eye destroyed.....	1	1		2	3	60	60.0	2.44
Eye injured.....	1	1		2	3	60	60.0	2.44
Feet broken.....	2	1	1	1	2	71	35.5	4.88
Feet injured.....	2	2		7	9	108	54.0	4.88
Fingers broken.....	2	1	1	4	5	71	35.5	4.88
Finger cut off.....	1	1		2	3	45	45.0	2.44
Hand broken.....	1		1			92	92.0	2.44
Hand burned.....	1	1		2	3	40	40.0	2.44
Hands injured.....	5	2	3	3	5	215	43.0	12.19
Head injured.....	1		1					2.44
Legs broken.....	2	1	1	4	5	199	99.5	4.88
Legs injured.....	5	1	4	1	2	311	62.2	12.19
Wrists broken.....	2	1	1	2	3	95	47.5	4.88
Total.....	41	25	16	77	102	2,160	54.0	100.00

## ST. CLAIR COUNTY, NINTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Kcgs of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accidents				
			Output of mines in tons			Total	Tons loaded on cars for shipment			Other purposes	Average number of miners	All others employed	Total		By hand	By machine	Killed	Injured
			Mine run	Lump	Other grades													
SHIPPING MINES																		
1	St. Louis & O'Fallon C. Co., No. 2.....	E. St. Louis	82,952	408,711	211,718	713,381	700,779	12,602	8,365	233	35	577	612	624,555	88,826	1	10	
2	Consolidated C. Co. No. 17.....	Collinsville	3,146	377,319	234,553	615,318	541,586	73,732	4,300	233	373	373	373	615,318	615,318	1	17	
3	Prairie Coal Co.....	Bellefonte	1,000	269,032	150,931	420,363	417,313	3,050	15,937	248	6	329	335	420,363	391,316	1	1	
4	Southern Coal Coke & M. Co., No. 8.....	do.	165,668	141,513	84,135	391,316	384,801	6,515	3,511	215	...	331	331	...	283,079	...	...	
5	Southern C. & M. Co., Little Oak, No. 7.....	do.	183,556	60,066	39,457	283,079	274,083	9,021	2,766	202	...	269	269	...	203,389	...	...	
6	Jos. Taylor Coal Co., St. Ellen.....	O'Fallon	120,500	...	82,889	203,389	181,889	21,500	6,702	143	206	60	206	...	153,461	...	...	
7	St. Louis & O'Fallon Coal Co., No. 1.....	E. St. Louis	5,103	92,828	55,530	153,461	147,925	5,536	6,176	80	280	122	402	...	138,369	...	...	
8	Superior Coal M. Co., Superior.....	Bellefonte	6,460	91,757	40,152	138,369	136,169	2,200	1,069	189	143	143	143	...	138,369	...	...	
9	Kolb Coal Co., Mascoutah, No. 2.....	Mascoutah	...	77,430	46,601	124,031	121,031	2,980	4,320	196	112	21	133	124,031	124,031	3	...	
10	Suburban C. & M. Co., Suburban Mine.....	Bellefonte	216	76,608	44,313	121,137	119,522	1,615	4,100	187	110	29	139	121,137	121,137	...	...	
11	Kolb Coal Co., No. 1.....	Mascoutah	70,696	16,914	11,276	98,886	34,472	64,414	3,980	365	75	23	98	98,886	98,886	...	...	
12	Kolb Coal Co., Fairbanks.....	Leinzburg	810	26,496	58,366	85,672	52,760	32,912	2,160	156	93	93	93	85,672	85,672	...	...	
13	Breese Trenton M. Co., Trenton.....	Trenton	...	49,126	35,231	84,357	75,196	9,161	542	123	200	200	200	...	84,357	...	...	
14	Mulberry Hill Coal Co., No. 1.....	Freeburg	4,000	30,198	27,100	81,298	78,000	3,298	915	120	70	25	95	...	81,298	...	...	
15	Star Coal Co., Star Mine.....	do.	10,950	35,265	30,526	76,741	60,000	16,741	1,000	175	52	31	83	...	76,741	...	...	
16	Jos. Taylor Coal Co., Taylor Mine.....	O'Fallon	74,096	...	...	74,096	63,596	10,500	2,480	104	104	37	141	74,096	74,096	...	...	
17	Jones Bros. Coal Co., Eureka, No. 1.....	Marissa	4,200	41,715	17,878	63,853	60,187	3,666	1,947	120	62	18	80	63,853	63,853	1	...	
18	Eldnar Coal Co., Eldnar.....	Bellefonte	7,180	34,047	16,069	57,266	55,796	1,470	1,350	226	30	21	51	57,266	42,972	...	...	
19	Borders Coal Co., No. 1.....	Marissa	4,760	33,502	15,482	53,744	48,620	5,124	1,792	89	90	25	115	53,744	53,744	...	...	
20	Summitt Coal & M. Co., Summitt.....	Bellefonte	2,230	35,110	15,455	52,795	51,995	800	1,915	114	60	21	81	52,795	52,795	...	...	
21	Jos. Taylor C. Co., Ridge Prairie Mine.....	O'Fallon	51,328	...	...	51,328	45,828	5,500	1,640	81	100	33	133	51,328	51,328	...	...	
22	Johnson Coal Co., O. K.....	Marissa	2,200	30,560	16,450	49,210	47,010	2,200	1,623	119	70	21	91	49,210	49,210	...	...	
23	White Coal Co., Miller Mine, No. 2.....	Bellefonte	23,455	...	...	48,146	43,996	4,150	1,375	93	70	19	89	48,146	48,146	...	...	
24	Pittsburg Mining Co., Pittsburg.....	do.	28,870	14,436	43,306	30,066	20,210	1,444	1,444	196	30	12	42	43,306	43,306	...	...	
25	Oakdale Coal M. Co., Glendale.....	do.	20,670	13,290	42,900	31,000	11,900	1,559	1,374	84	70	20	36	42,900	42,900	...	...	
26	Fullerton Coal Co.....	do.	10,261	23,295	9,037	42,593	41,034	1,559	1,374	84	70	20	36	42,593	42,593	...	...	
27	Groome Coal Co., Richland.....	do.	365	28,580	8,640	37,585	36,721	864	1,835	192	40	15	55	37,585	37,585	...	...	
28	Gauch C. & M. Co., Enterprise.....	Rentzel	8,600	16,655	6,245	31,500	30,055	1,445	1,030	140	33	11	44	31,500	31,500	...	...	
29	Mo. & Ill. Coal Co., Rentzel.....	do.	1,682	20,525	8,638	30,845	29,700	1,145	1,030	140	33	11	44	31,500	31,500	...	...	
30	Maule Coal Co., Harmony.....	Bellefonte	11,106	...	7,300	28,400	26,200	3,200	880	140	38	10	48	28,400	28,400	...	...	
31	International C. & M. Co., Carbon Mine.....	O'Fallon	28,237	...	...	28,237	27,580	657	940	92	70	13	83	28,237	26,573	...	...	
32	L. Senior, Branch.....	Bellefonte	8,500	11,919	6,750	27,169	27,169	1,050	783	249	20	5	25	25,804	25,804	...	...	
33	Highland Coal Co.....	do.	20,006	5,258	25,804	8,690	17,174	783	783	249	20	5	25	25,804	25,804	...	...	
34	New National Coal Co., National.....	do.	1,500	17,500	6,500	25,250	1,100	24,150	833	240	24	4	28	25,250	25,250	...	...	

35 Southern C. C. & M. Co., Avery, No. 1.....	136	13, 767	8, 651	22, 554	20, 884	1, 670	221	54	104	104	21, 565	22, 554	1
36 Turrie Coal Co., T. Mine.....	20, 464	14, 246	7, 349	21, 595	20, 980	615	600	76	37	20	57	21, 565	1
37 Kolb Coal Co., Valley Mine.....	1, 090	13, 430	5, 889	20, 464	19, 223	1, 241	845	111	30	8	38	20, 464	1
38 Clukey Miller Coal Co., Ruby.....	1, 827	13, 175	5, 198	20, 409	19, 631	778	836	188	35	10	45	20, 409	1
39 St. Clair Coal Co., St. C.....	1, 965	13, 175	5, 198	18, 323	18, 821	502	690	125	46	46	46	19, 323	1
40 Vulcan C. & M. Co., Hippard.....	1, 618	10, 931	7, 634	18, 675	17, 116	1, 559	785	67	40	21	61	18, 675	1
41 Golden Rule Coal Co.....	15, 200	10, 931	5, 438	17, 334	15, 620	1, 714	668	138	23	10	33	17, 334	1
42 Egyptian C. & M. Co., Meek, No. 2.....	2, 046	11, 713	2, 749	16, 080	15, 580	500	568	71	38	14	52	16, 080	1
43 Fisher Fuel Co.....	7, 539	6, 994	4, 921	15, 200	15, 200	1, 200	210	210	21	21	15, 200	1	
44 Silver Creek Valley C. Co., S. C. Mine.....	7, 978	8, 000	3, 800	13, 961	12, 761	1, 800	221	75	15	7	22	13, 230	1
45 Mulberry Hill Coal Co., No. 2.....	220	3, 968	3, 800	11, 507	10, 000	1, 800	400	60	25	16	41	11, 507	1
46 Reeb Bros. Coal Co., Murphy.....	561	5, 555	2, 740	8, 295	7, 539	3, 968	388	188	10	3	13	8, 295	1
47 Mo. & Ill. Coal Co., Wilderman Mine.....	884	5, 555	2, 740	8, 295	7, 539	3, 968	388	188	10	3	13	8, 295	1
48 Southern C. C. & M. Co., No. 5.....	220	4, 481	316	8, 295	7, 539	3, 968	388	188	10	3	13	8, 295	1
49 Egyptian C. & M. Co., Advance.....	561	4, 481	884	8, 295	7, 539	3, 968	388	188	10	3	13	8, 295	1
50 Kolb Coal Co., V. Hill.....	800, 794	2, 443, 185	1, 393, 573	4, 637, 552	4, 234, 581	402, 971	97, 671	142	2, 178	3, 394	5, 572	2, 697, 453	9 41
Total.....	800, 794	2, 443, 185	1, 393, 573	4, 637, 552	4, 234, 581	402, 971	97, 671	142	2, 178	3, 394	5, 572	2, 697, 453	9 41
LOCAL MINES													
1 Belleville Col. o.....	13, 490	4, 732	1, 488	19, 710	19, 710	19, 710	637	198	19	10	29	19, 710	1
2 Bretz and Schilling.....	14, 000	5, 000	700	19, 700	19, 700	19, 700	550	290	11	3	14	19, 700	1
3 Tower Grove Coal Co.....	12, 742	12, 742	12, 742	12, 742	12, 742	12, 742	348	205	14	2	16	12, 742	1
4 Peoples Coal Co.....	8, 625	8, 625	8, 625	8, 625	8, 625	8, 625	64	198	8	4	12	8, 625	1
5 Co-operative Coal Co.....	7, 927	7, 927	7, 927	7, 927	7, 927	7, 927	245	265	7	1	8	7, 927	1
6 Richard Schram & Son.....	7, 038	7, 038	7, 038	7, 038	7, 038	7, 038	280	242	8	2	10	7, 038	1
7 J. T. Beatty.....	5, 559	5, 559	5, 559	5, 559	5, 559	5, 559	298	215	6	2	8	5, 559	1
8 Pistor and Lippert.....	4, 299	4, 299	520	4, 819	4, 819	4, 819	250	10	1	11	4, 819	1	
9 Diamond Joe Coal Co.....	4, 587	4, 587	4, 587	4, 587	4, 587	4, 587	212	8	1	9	4, 587	1	
10 McGonch Bros. & Stone.....	3, 400	3, 400	3, 400	3, 400	3, 400	3, 400	260	2	1	3	3, 400	1	
11 Quinn & Son.....	2, 701	2, 701	2, 701	2, 701	2, 701	2, 701	35	275	2	1	3	2, 701	1
12 Fred Weisner.....	1, 940	1, 940	1, 940	1, 940	1, 940	1, 940	22	260	2	1	3	1, 940	1
13 Lerth and Walters.....	1, 422	1, 422	1, 422	1, 422	1, 422	1, 422	52	150	2	1	3	1, 422	1
14 Edgemont Coal Co.....	1, 270	1, 270	1, 270	1, 270	1, 270	1, 270	46	78	4	1	5	1, 270	1
15 Fred J. Zeska.....	1, 220	1, 220	1, 220	1, 220	1, 220	1, 220	35	250	1	1	5	1, 220	1
Total.....	81, 334	18, 618	2, 708	102, 660	102, 660	102, 660	2, 612	224	104	31	135	92, 765	1
Total—65 mines.....	882, 128	2, 461, 803	1, 396, 281	4, 740, 212	4, 234, 581	505, 631	100, 283	160	2, 282	3, 425	5, 707	2, 790, 218	9 41

Mines reported for 1912, 75.  
 New mines, 2.  
 Abandoned mines, 12.  
 Mines in 1913, 65.

## RECAPITULATION BY COUNTIES, NINTH DISTRICT, 1913

	St. Clair		St. Clair
<b>SHIPPING MINES</b>			
Number of mines.....	50	Number of machines in use.....	166
Production of different grades in tons—		Number of motors in use.....	30
Mine run.....	800,794	Number killed.....	9
Lump.....	2,443,185	Number injured.....	41
Egg.....	134,698	Blasting coal—	
Nut.....	98,584	From solid—tons.....	2,048,269
Pea.....	1,101,369	Undercut—tons.....	1,796,350
Slack.....	55,922	Both methods—tons.....	792,933
Total.....	4,637,552	<b>LOCAL MINES</b>	
Disposition of output, in tons—		Number of mines.....	15
Loaded on cars for shipment.....	4,234,581	Production of different grades in tons—	
Other purposes.....	402,971	Mine run.....	81,334
Kegs of powder used blasting coal.....	97,671	Lump.....	18,618
Days of active operation.....	142	Other grades.....	2,708
Employees under ground—		Total.....	102,660
Miners.....	2,178	Kegs of powder used blasting coal.....	2,612
Others.....	2,869	Days of active operation.....	224
Boys.....	66	Number of employees.....	135
Employees above ground.....	459	Tons mined by hand.....	92,765
Total.....	5,572	Tons mined by machine.....	9,895
Tons mined by hand.....	2,697,453	Number killed.....	
Tons mined by machine.....	1,940,099	Number injured.....	

Whole number of mines reported for 1912, 75.

Number of new mines opened during year, 2.

Number of mines abandoned during the year, 12.

Whole number of mines reported for 1913, 65.



## TENTH INSPECTION DISTRICT—1913

COUNTIES—JACKSON, JEFFERSON, PERRY, RANDOLPH, WASHINGTON  
THOMAS LITTLE, *Inspector*, MURPHYSBORO

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Jackson, Jefferson, Perry, Randolph, and Washington.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	5
Number of shipping mines.....	40
Number of local mines.....	25
Number of new or re-opened mines.....	8
Number of closed or abandoned mines.....	8
Numbers of miners.....	1,953
Others underground, men.....	2,393
Boys underground.....	101
Boys above ground.....	21
Others above ground.....	450
Total number of employees.....	4,918
Total tons of coal produced.....	3,365,176
Days of active operation, all mines.....	156
Kegs of powder used for blasting coal.....	64,087
Tons of coal shipped.....	2,966,332
Tons supplied to locomotives.....	128,412
Tons sold to local trade.....	139,730
Tons consumed and wasted at mines.....	130,702
Number of fatal accidents.....	8
Number of non-fatal accidents.....	27
Number of employees to each fatal accident.....	615
Number of employees to each non-fatal accident.....	182
Tons of coal produced to each fatal accident.....	420,647
Tons of coal produced to each non-fatal accident.....	124,636
Ratio of fatal accidents per 1,000 employees.....	1.63

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Jackson.....	724,374	727,484	3,110	
Jefferson.....	8,038	35,659	27,621	
Perry.....	1,406,317	1,643,043	236,726	
Randolph.....	762,816	712,058		50,758
Washington.....	189,883	246,932	57,049	
Total.....	3,091,428	3,365,176	324,506	50,758
Net.....			273,748	

## NEW MINES

The following mines have been opened or re-opened during the year: DeSoto Peacock Coal Co., DeSoto; T. A. Nesbit, Ava; George Wahlman, Campbell Hill, Jackson County; Dynamic Coal Mining Co., No. 3, Greenwood-Davis Coal Co., and Rolla Clark, Duquoin, Perry County; Rury & Rury and Evan Briggman, Percy, Randolph County.

## ABANDONED MINES

Eight mines reported last year are either abandoned permanently, or operations suspended during the year, as follows:

Schmidtgal Coal Co., Murphysboro; Phillips & Johnson, Carbondale; Boden & Craig, and Bane & Ellace, DeSoto, Jackson County; Bessemer Coal & Mining Company's White Walnut mine, Pinckneyville; Orion Coal Company's Jupiter No. 5 mine, Duquoin; B. O. Cook, Duquoin, and C. A. House & Co., St. John, Perry County.

## CHANGE OF NAME

William Bullar to Tom Harris; Schimpff & Craig to B. Schimpff; Johnson-Allen Coal Co. to King City Coal & Mining Co.; Joe Morris Coal Co. No. 2 to Greenwood-Davis; West Mine Coal Company to Underwood Coal & Mining Co.; P. Laumbattis to Martin Bros.

## IMPROVEMENTS

The Security Coal Company, Duquoin, has built an oil and supply house 32 feet by 22 feet, a barn 70 feet by 30 feet, a first aid house 14 feet by 20 feet, a pipe and lumber house 20 feet by 30 feet, a car-puller house 15 feet by 15 feet, a boxcar-loader house 20 feet by 15 feet, a pumphouse 10 feet by 10 feet, made a concrete dam at the pond 50 feet long and 2 feet thick, put in 5,000 feet of new track, using 60-pound rails.

The company has also installed a drag from tippie to boilers; a Deming electric mine pump, 3-inch suction, 2½-inch discharge; an electric Christie boxcar loader and car puller with 6x10 engine; a drag engine, 15 H.P.; a new lathe for the shop; a pair of Straiter automatic scales; 17 feet addition to the screens; two new long wall electric chain machines; two 5-ton Goodman motors; 100 new pit cars; a Dean duplex steam pump, 5-inch suction, 4-inch discharge, 8x10 cylinder; a new shaker engine, 40 H.P.; a new generator 200 K.W., or 175 volts, and a new 300 H.P. engine.

The following are the improvements at the Paradise mine, Duquoin: One 200 H.P. boiler, installed by the Frost Manufacturing Co., Galesburg, Ill.; one 30 H.P. engine to run a force draft system for boilers; one 300-ton chute coal bin for locomotives; one 30 H.P. Westinghouse motor for elevating coal into bins, installed by the Link-Belt Manufacturing Co.; two 5-ton Goodman motors for the mine; two Goodman mining machines, electric; one double-friction Drunn car puller, driven by two Liggerwood engines, size 7x9; one engine lathe for shop.

The Majestic Coal Co., Duquoin, has installed one new Westinghouse generator 250 K.W., direct connected to a 4-valve 22x24 Chuse engine; two 3-ton Goodman gathering motors, and two 5-ton Goodman motors; ten Sullivan short wall mining machines; one car puller, driven by Erie engine, 8x10.

The Willisville Coal & Mining Co. has installed, at the Percy mine, one new boiler 70 inches by 20 feet, with seventy 3-inch flues, made by the John O'Brien Boiler Co., St. Louis, Mo.; one new fan, Duncan make, blades 6x6, diameter 21 feet, direct connected to an Atlas engine.

This company has installed at the Willisville mine one new fan, Duncan make, blades 6x7, diameter 22 feet, direct connected to an Atlas engine.

## FATAL ACCIDENTS

November 4, 1912, William English, miner, aged 43 years, married, employed in the Big Muddy Coal & Iron Company's Harrison mine, Murphysboro, Jackson County, was killed by a mule. He leaves a widow and six children.

November 25, 1912, Joe Grigalunus, trapper, aged 19 years, single, was killed by a motor in the Centralia Coal Company's No. 5 mine, Centralia, Marion County.

January 4, 1913, Wesley Bann, driver, aged 19 years, single, employed at the Willis Coal & Mining Company's No. 1 mine, Willisville, Perry County, was coming out of the main west entry with a trip of cars, and when he came to the trap door and was stepping off the front end of the car, the mule kicked him over the heart, causing his death.

January 20, 1913, Milfred Lane Hinckley, cager, aged 35 years, married, employed at the Duquoin Operating Company's mine, Duquoin, Perry County, was pushing a car on the cage, when a piece of coal fell down the shaft and struck him on the head, killing him. He leaves a widow and two children.

January 31, 1913, Antonio Russo, miner, aged 61 years, single, employed at the Big Muddy Coal & Iron Company's Harrison mine, Murphysboro, Jackson County, died from injuries received January 20. Deceased was sawing a prop on side of the road when a car struck him.

February 15, 1913, Henry Smith, driver, aged 22 years, married, was killed by falling under a car in the Big Muddy Coal & Iron Company's Harrison mine, Murphysboro, Jackson County. He leaves a widow and one child.

February 18, 1913, Ira Maxwell, miner, aged 33 years, married, was killed by falling slate in the Nicholson Coal Company's mine, Nashville, Washington County. He leaves a widow and two children.

June 4, 1913, Roscoe Bury, miner, aged 20 years, single, was helping to sink an air shaft at Rury & Rury's local mine, Percy, Randolph County, and was being hoisted up the shaft in a tub, when, in making the landing at the top, he slipped and fell down the shaft. He was dead when brought to the top of shaft.

Respectfully submitted,

THOMAS LITTLE

State Inspector of Mines, Tenth District, Murphysboro, Ill.

#### FATAL CASUALTIES, TENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
Nov. 4	William English	43	Driver	Murphysboro	1	1	6	7		Kicked by mule
25	Joe Grigalunus	19	Trapper	Centralia	1	1				Motor
1913										
Jan. 4	Wesley Bann	19	Driver	Willisville	1	1		1		Kicked by mule
20	Milfred L. Hinckley	35	Cager	Duquoin	1	1	2	3		Coal fell down shaft
31	Antonio Russo	61	Loader	Murphysboro	1	1		1		Pit car
Feb. 15	Henry Smith	22	Driver	do.	1	1	1	2		do.
18	Ira Maxwell	33	Miner	Nashville	1	1	2	3		Falling slate
June 4	Roscoe Bury	20	do.	Percy	1	1				Fell down shaft
	Total				4	4	4	11	17	

#### RECAPITULATION OF FATAL CASUALTIES, TENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Centralia	1	Cager	1	Coal fell down shaft	1	Big Muddy C. & I.	3
Duquoin	1	Drivers	3	Falling slate	1	Centralia	1
Murphysboro	3	Loader	1	Fell down shaft	1	Duquoin Operating	1
Nashville	1	Miners	2	Motor	1	Nicholson	1
Percy	1	Trapper	1	Mule, kicked by	2	Rury & Rury	1
Willisville	1			Pit cars	2	Willis C. & M.	1
Total	8		8		8		8

## NON-FATAL CASUALTIES, TENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July 10	Fred Overturf	18	Murphysboro	1	1			Body injured, kicked by mule	46
17	Howard Keene	62	Cutler	1		8	9	Back injured, falling slate	40
22	Joe Scaglione	22	Willisville	1				Body burned, shot explosion	45
Aug. 1	Ottis Little	22	Duquoin	1				Arm broken, tail chain	90
1	Angelo Derore	25	do.	1		4	5	Shoulder injured, pit car	60
6	Stani Nedza	35	do.	1				Fingers broken, pit car	45
10	Arthur Vancil	25	do.	1				Leg injured, pit car	40
10	Alas Harris	48	Percy	1		8	9	Hand injured, machine	32
29	John Eglopp	65	Murphysboro	1		8	1	Leg injured, falling slate	42
30	Joe Schromek	55	Duquoin	1		2	3	Back injured, falling prop	35
Sept. 5	Harley Hill	24	do.	1				Foot injured, pit car	30
Oct. 4	Alex Melleville	23	Percy	1				Body injured, pit car	*
9	Gilbert Cross	39	Nashville	1		6	7	Ankle injured, falling slate	32
28	Martin Baun	52	Willisville	1		1	2	Hand injured, falling coal	44
Nov. 9	Wm. Keller	28	Percy	1		2	3	Collar bone broken, falling slate	32
Dec. 11	Fred Dasetti	35	Duquoin	1				Leg broken, falling coal	*
16	Thomas Murphy	55	Murphysboro	1		3	4	Shoulder injured, machine	90
20	Wm. Repke	24	Willisville	1		1	2	Head injured, engine	60
27	Washington Famler	38	Murphysboro	1		1	2	Head injured, falling slate	58
1913									
Jan. 27	E. H. Jones	36	Coulterville	1		2	3	Foot broken, falling coal	30
Feb. 17	Ben Camparello	32	Duquoin	1				Body burned, shot explosion	30
17	Sam Camparello	28	do.	1				do.	30
27	George Armstrong	50	do.	1		2	3	Shoulder injured, electric wire	30
Mar. 17	Dave McDaniel	24	Winkle	1		1	2	Body injured, falling slate	45
Apr. 10	John McFerran	54	Nashville	1		2	3	Body injured, falling coal	45
May 2	John Robertson	25	Willisville	1				do.	30
9	Anton Lanala	37	do.	1				Body injured, cage	30
	Total			15	12	51	58		

\* Not returned to work.

Number of men injured	27	Total days lost by men returned to work	1,091
Number not returned to work, July 1	2	Average days lost	43.64
Number returned to work	25		

## RECAPITULATION OF NON-FATAL CASUALTIES, TENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Coulterville	1	Drivers	5	Cage	1	Bald Eagle	1
Cutler	1	Laborers	5	Electric wire	1	Big Muddy C. & I.	4
Duquoin	10	Machine helpers	2	Engine	1	Majestic	3
Murphysboro	4	Miners	13	Falling coal	5	Missouri & Illinois	1
Percy	2	Shot firers	2	Falling prop	1	Nicholson	2
Nashville	3			Falling slate	6	Paradise	1
Willisville	5			Machine	2	St. Louis-Coulterville	1
Winkle	1			Mule, kicked by	1	Security	6
				Pit cars	5	Willis C. & M.	8
				Shot explosion	3		
				Tail chain	1		
Total	27		27		27		27

RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS AND TIME LOST, TENTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percent- age of injuries
						Total	Average	
Ankle injured.....	1	1	.....	6	7	32	32.0	3.70
Arm broken.....	1	.....	1	.....	.....	90	90.0	3.70
Backs injured.....	2	2	.....	10	12	75	37.5	7.41
Bodies burned.....	3	.....	3	.....	.....	105	35.0	11.12
Bodies injured.....	6	2	4	3	5	196	39.2	22.22
Collar-bone broken.....	1	1	.....	2	3	32	32.0	3.70
Finger broken.....	1	.....	1	.....	.....	45	45.0	3.70
Foot broken.....	1	1	.....	2	3	30	30.0	3.70
Foot injured.....	1	.....	1	.....	.....	30	30.0	3.70
Hands injured.....	2	2	.....	9	11	76	38.0	7.41
Heads injured.....	2	2	.....	2	4	118	59.0	7.41
Leg broken.....	1	.....	1	.....	.....	.....	.....	3.70
Legs injured.....	2	1	1	8	1	82	41.0	7.41
Shoulders injured.....	3	3	.....	9	12	180	60.0	11.12
Total.....	27	15	12	51	58	1,091	43.64	100.00

## JACKSON COUNTY, TENTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Total	Disposition of output		Keys of powder used for blasting coal	Employees			Tons mined		Accidents
			Mine run	Lump	Other grades		Tons loaded on cars for shipment	Other purposes		Average number of miners	All other employees	Total	By hand	By machine	
SHIPPING MINES															
1	Big Muddy C. & I. Co., No. 9.	Murphysboro	73,493	83,644	99,103	256,240	245,030	11,210	2,331	207	139	85	224	256,240	4
2	Muddy Valley M. Co., M. V.	Hallidayboro.	23,828	36,752	88,147	148,727	91,524	57,203	4,422	110	136	116	252	148,727	
3	Big Muddy C. & I. Co., Harrison.	Murphysboro	660	44,131	53,047	97,838	85,021	12,817	735	110		222	252	97,838	3
4	Gardside Coal Co., No. 4.	do.	20,715	25,945	19,666	66,326	37,960	28,366	853	199	20	90	110	13,765	
5	Gus Blair B. M. C. Co., No. 1.	do.	5,016	26,620	16,269	47,905	43,756	4,149	370	214	2	80	82	47,905	
6	Kreikheimer Coal Co., No. 1.	DeSoto	11,480	13,980	16,233	41,713	36,680	5,033	1,900	118	75	22	97	41,713	
7	Gus Blair B. M. C. Co., No. 2.	Murphysboro	724	23,872	16,412	41,008	23,600	17,408	312	270	2	61	63	41,008	
8	DeSoto Peacock Coal Co., No. 1.	DeSoto.	1,950	150	1,128	3,228	2,800	428	200	188	8	3	11	3,228	
Total.			137,866	255,094	310,025	702,985	566,371	136,614	11,123	177	382	679	1,061	207,433	3
LOCAL MINES															
1	J. B. Woods.	Carbondale	5,500			5,500		5,500	75	125	4	1	5	5,500	
2	G. W. Patrick.	do.	3,000	1,500		4,500		4,500	200	250	3	1	4	4,500	
3	Thos. Harris.	DeSoto		1,250	2,150	3,400		3,400	150	195	4	1	5	3,400	
4	T. A. Nesbit.	Ava.	3,200			3,200		3,200	25	150	2	1	3	3,200	
5	H. S. Phillips.	Carbondale		2,000	1,000	3,000		3,000	100	200	5		5	3,000	
6	Geo. Wahlmann.	Campbell Hill	623	312	195	1,130		1,130	103	124	3	1	4	1,130	
7	Church & Bone.	Ava.	200	700		900		900	60	130	2		2	900	
8	W. F. Johnson.	do.	850			850		850	35	95	2		2	850	
9	B. Schimpff.	do.	20	594		614		614	17	250	2		2	614	
10	W. R. Campbell.	Mathews.	350	150	50	550		550	7	90	2		2	550	
11	Mike Kirby.	Campbell Hill	455			455		455	50	300	2		2	455	
12	J. B. Schimpff.	Vergennes.		400		400		400	60	150	2		2	400	
Total.			14,198	6,906	3,395	24,499		24,499	882	172	33	5	38	24,499	
Total—20 mines.			152,064	262,000	313,420	727,484	566,371	161,113	11,005	174	415	684	1,099	231,932	3

Mines reported for 1912, 21.  
 New mines, 3.  
 Abandoned mines, 4.  
 Mines in 1913, 20.

JEFFERSON COUNTY, TENTH DISTRICT, 1913

SHIPPING MINE		5,200	7,605	22,814	35,619	24,689	10,930	1,600	280	40	36	76	35,619
1	Mt. Vernon Coal Co.....												
LOCAL MINE		40			40		40		30	2		2	40
1	Sophia Shelton.....												
Total—2 mines.....		5,240	7,605	22,814	35,659	24,689	10,970	1,600	155	42	36	78	35,659

Mines reported for 1912, 1.  
Mines in 1913, 1.

PERRY COUNTY, TENTH DISTRICT, 1913

SHIPPING MINES		24,336	47,804	203,534	275,674	270,830	4,844	3,492	189	.....	371	371	275,674
1	Security C. & M. Co., No. 1.....	244,538	66,264	120,479	244,538	234,592	9,946	2,469	219	.....	226	226	240,393
2	Willis C. & M. Co., No. 1.....	54,740			241,483	192,960	48,523	2,475	154	40	285	325	196,756
3	Paradise Coal Co., Paradise.....	215,730			215,730	205,430	10,300	3,358	114	30	210	240	172,500
4	Majestic Coal & C. Co., Majestic.....	158,852			158,852	111,422	47,430	1,987	272	.....	153	153	158,852
5	Pinekeyville Coal Co., No. 1.....	158,704			158,704	157,604	1,100	4,045	101	150	77	227	158,704
6	Duquoin Operating Co., Queen.....	123,282			123,282	123,282	3,444	2,000	138	75	46	141	126,726
7	Mo. & Ill. Coal Co., No. 4.....	7,229	33,896	20,279	61,404	54,175	7,229	2,910	546	90	40	34	61,404
8	St. Louis-Coulterville C. Co., Vulcan.....	18,320	18,320	29,745	48,410	45,500	8,203	826	155	22	5	27	23,565
9	Bald Eagle Mining Co., B. E.....	12,022	7,840	3,996	23,859	15,656	2,910	546	90	40	34	74	39,565
10	Wilson Coal Co., M. Co.....	3,722	15,918	898	16,816	14,000	2,816	635	90	32	13	45	16,816
11	King City C. & M. Co.....	3,471	5,601	4,471	13,794	10,000	3,794	511	33	57	25	82	13,794
12	Little Muddy Fuel Co.....	13,047	6,400	7,142	13,752	11,995	1,757	496	148	25	8	33	13,752
13	Bayley Bros. Coal Co., Diamond.....	13,047	5,643	3,766	13,047	12,247	800	483	47	75	24	99	8,639
14	Brilliant Coal & Coke Co., H. Mine.....	1,401	3,202	2,866	9,409	8,788	1,606	376	169	20	7	27	9,409
15	Greenwood-Davis Coal Co., No. 2.....	1,401	3,202	2,866	7,469	5,863	1,606	259	216	6	3	9	7,469
16	Bayley Bros. Coal Co., Sun.....	120	2,640	615	3,255	1,640	1,615	150	200	8	8	16	3,255
17	Straff Coal Co.....		2,425	747	1,292	1,157	1,35	100	48	20	9	29	1,292
18	Dynamite Coal Mining Co., No. 3.....												
Total.....		1,018,279	213,953	401,982	1,634,214	1,477,141	157,073	26,639	142	695	1,530	2,225	450,060
LOCAL MINES													
1	Schneider Coal Co.....	215	2,283	483	2,981	.....	2,981	140	150	4	3	7	2,981
2	Hale Coal Co.....	.....	1,400	850	2,250	.....	2,250	125	160	4	1	5	2,250
3	Greenwood-Davis Coal Co.....	.....	827	828	1,655	.....	1,655	1	175	2	.....	2	1,655
Duquoin.....													



PERRY COUNTY, TENTH DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons				Disposition of output		Days of active operation	Employees			Tons mined		Accidents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes		Average number of miners	All other employees	Total	By hand	By machine	Killed	Injured
4	LOCAL MINES— <i>Concluded</i>															
4	New Moon Mining Co.....	Duquoin.....	63	1,050	373	1,486	.....	1,486	15	1	2	3	1,486	.....	.....	.....
5	Rolla Clark.....	St. John.....	457	.....	.....	457	.....	457	5	1	1	2	457	.....	.....	.....
	Total.....	.....	735	5,560	2,534	8,829	.....	8,829	286	12	7	19	8,829	.....	.....	.....
	Total—23 mines.....	.....	1,019,014	219,513	404,516	1,643,043	1,477,141	165,902	26,925	707	1,537	2,244	458,889	1,184,154	2	17

Mines reported for 1912, 24.

New mines, 3.

Abandoned mines, 4.

Mines in 1913, 23.

## RANDOLPH COUNTY, TENTH DISTRICT, 1913

SHIPPING MINES																
1	Willis Coal & Mining Co., Coalby No. 6	Percy.....	219,440	27,600	22,070	269,110	263,828	5,282	4,386	220	215	215	.....	269,110	.....	4
2	Jones Bros. C. M. Co., Eureka No. 2	Marissa.....	3,476	62,000	37,943	103,509	100,509	3,000	3,809	130	26	132	103,509	.....	.....	.....
3	Wilson Bros. Coal Co., No. 7	Sparta.....	3,246	52,849	25,211	78,306	76,637	1,689	1,777	125	36	106	28,797	49,509	.....	.....
4	Illinois Fuel Co., No. 4	do.....	22,280	34,594	58,726	73,600	73,663	1,937	983	103	52	142	75,600	74,318	.....	.....
5	Moffat Coal Co., No. 1	do.....	19,267	34,858	20,193	74,318	72,605	1,713	1,124	136	138	138	.....	.....	.....	.....
6	Bessemer C. & M. Co., Crystal	Tilden.....	.....	7,343	20,470	27,813	25,785	2,028	840	79	25	101	27,813	.....	.....	.....
7	Bessemer C. & M. Co., Tilden	do.....	3,747	15,882	7,176	26,805	26,215	798	1,015	114	75	28	26,805	.....	.....	.....
8	Underwood C. & M. Co., Consol.	Coulterville.....	.....	15,443	7,721	23,164	22,366	798	1,158	114	30	43	23,164	.....	.....	.....
9	Randolph Co. Coal Co., Old Mine	do.....	312	6,015	7,605	13,932	11,466	2,466	398	61	39	24	13,932	.....	.....	.....
10	Boyd C. & C. Co., No. 1	Sparta.....	7,426	.....	.....	7,426	6,968	458	297	45	26	44	7,426	.....	.....	.....
	Total.....	.....	276,194	256,674	167,115	699,983	680,042	19,941	15,787	113	477	1,087	231,446	468,537	.....	4

LOCAL MINES													
1	Rury & Rury	3,000	.....	3,000	.....	3,000	1,000	250	2	1	3	3,000	.....
2	Jones & Sons	2,250	.....	2,370	.....	2,370	35	250	4	.....	4	2,370	.....
3	Boyle Coal Co.	730	1,510	2,240	.....	2,240	300	280	6	1	7	2,240	.....
4	Adams Bros.	2,060	.....	2,060	.....	2,060	107	145	5	.....	5	2,060	.....
5	J. W. Bixby	.....	1,780	1,905	.....	1,905	115	165	4	2	6	1,905	.....
6	Evan Briggman	60	340	500	.....	500	20	130	3	1	4	500	.....
	Total	8,100	3,630	12,075	.....	12,075	1,577	202	24	5	29	12,075	.....
	Total—16 mines	284,294	260,304	712,058	680,042	32,016	17,364	146	501	615	1,116	243,521	408,537

Mines reported for 1912, 14.  
New mines, 2.  
Mines in 1913, 16.

WASHINGTON COUNTY, TENTH DISTRICT, 1913

SHIPPING MINES													
1	Centralia Coal Co., No. 5	27,576	53,479	119,390	200,445	193,519	6,926	4,956	130	200	40	168,586	31,859
2	Nicholson Coal Co.	36,844	.....	36,844	36,844	20,000	16,844	1,842	233	40	25	36,844	.....
3	Kuhn Coal Co.	.....	5,470	1,823	7,293	4,570	2,723	300	60	45	18	7,293	.....
	Total	64,420	58,949	121,213	244,582	218,089	26,493	7,098	141	285	92	212,723	31,859
LOCAL MINES													
1	Martin Bros.	.....	2,150	200	2,350	.....	2,350	95	200	3	1	2,350	.....
	Total—4 mines	64,420	61,099	121,413	246,932	218,089	28,843	7,193	156	288	93	215,073	31,859

Mines reported for 1912, 4.  
Mines in 1913, 4.

## RECAPITULATION BY COUNTIES, TENTH DISTRICT, 1913

	Jackson	Jefferson	Perry	Randolph	Washington	Total
<b>SHIPPING MINES</b>						
Number of mines.....	8	1	18	10	3	40
Production of different grades in tons—						
Mine run.....	137,866	5,200	1,618,279	276,194	64,420	1,501,959
Lump.....	255,094	7,605	213,953	256,674	58,949	792,275
Egg.....	43,729	7,604	93,341	22,234	55,137	222,045
Nut.....	26,681		68,708	25,986		121,375
Pea.....	220,676	15,210	232,963	112,614	59,001	640,464
Slack.....	18,939		6,970	6,281	7,075	39,265
Total.....	702,985	35,619	1,634,214	699,983	244,582	3,317,383
Disposition of output, in tons—						
Loaded on cars for shipment.....	566,371	24,689	1,477,141	680,042	218,089	2,966,332
Other purposes.....	136,614	10,930	157,073	19,941	26,493	351,051
Kegs of powder used blasting coal.....	11,123	1,600	26,639	15,787	7,098	62,247
Days of active operation.....	177	280	142	113	141	145
Employees, under ground—						
Miners.....	382	40	695	477	285	1,879
Others.....	507	28	1,291	515	50	2,391
Boys.....	41	1	43	12	4	101
Employees, above ground.....	131	7	196	83	38	455
Total.....	1,031	76	2,225	1,087	377	4,826
Tons mined by hand.....	207,433	35,619	450,060	231,446	212,723	1,137,281
Tons mined by machine.....	495,552		1,184,154	468,537	31,859	2,180,102
Number of machines in use.....	44		61	34	5	144
Number of motors in use.....	5	1	18	5	10	39
Number killed.....	3		2		2	7
Number injured.....	4		17	4	2	27
Blasting coal—						
From solid—tons.....	193,668	35,619	309,754	202,649	244,582	986,272
Undercut—tons.....	509,317		805,790	419,028		1,734,135
Both methods—tons.....			518,670	78,306		596,976
<b>LOCAL MINES</b>						
Number of mines.....	12	1	5	6	1	25
Production of different grades in tons—						
Mine run.....	14,198	40	735	8,100		23,073
Lump.....	6,906		5,560	3,630	2,150	18,246
Other grades.....	3,395		2,534	345	200	6,474
Total.....	24,499	40	8,829	12,075	2,350	47,793
Kegs of powder used blasting coal.....	882		286	1,577	95	2,840
Days of active operation.....	172	30	170	202	200	174
Number of employees.....	38	2	19	29	4	92
Tons mined by hand.....	24,499	40	8,829	12,075	2,350	47,793
Tons mined by machine.....						
Number killed.....				1		1
Number injured.....						

Whole number of mines reported for 1912, 65.

Number of new mines opened during year, 8.

Number of mines abandoned during the year, 8.

Whole number of mines reported for 1913, 65.

## ELEVENTH INSPECTION DISTRICT—1913

COUNTIES—FRANKLIN, GALLATIN, SALINE, WHITE

FRANK ROSBOTTOM, *Inspector*, BENTON

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Franklin, Gallatin, Saline, and White.

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	4
Number of shipping mines.....	37
Number of local mines.....	16
Number of new or re-opened mines.....	5
Number of closed or abandoned mines.....	9
Number of miners.....	877
Others underground, men.....	9,031
Boys underground.....	141
Boys above ground.....	13
Others above ground.....	912
Total number of employees.....	10,974
Total tons of coal produced.....	9,849,807
Days of active operation, all mines.....	177
Kegs of powder used for blasting coal.....	74,181
Pounds of permissible explosives used.....	600,295
Tons of coal shipped.....	9,464,381
Tons supplied to locomotives.....	28,643
Tons sold to local trade.....	113,840
Tons consumed and wasted at mines.....	242,943
Number of fatal accidents.....	41
Number of non-fatal accidents.....	200
Number of employees to each fatal accident.....	268
Number of employees to each non-fatal accident.....	55
Tons of coal produced to each fatal accident.....	240,239
Tons of coal produced to each non-fatal accident.....	49,249
Ratio of fatal accidents per 1,000 employees.....	3.74

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Franklin.....	4,026,815	5,232,526	1,205,711	-----
Gallatin.....	73,620	78,099	4,479	-----
Saline.....	4,088,575	4,519,936	431,361	-----
White.....	31,774	19,246	-----	12,528
Total.....	8,220,784	9,849,807	1,641,551	12,528
Net.....	-----	-----	1,629,023	-----

## NEW MINES

Five mines have been opened during the year as follows: Christopher Coal Mining Company, Christopher, Franklin County; W. H. McLean, Equality, Gallatin County; Tanner, Barkus & Co., and Elders & Bixler, Carriers Mills, and Mag Hart, Equality, Saline County.

## ABANDONED MINES

The following mines have not been in operation this year and are classed as abandoned mines:

Big Muddy-Carterville Mining Company, Royalton, Franklin Co.; Sisk & McLean, Equality, Reid & Brice, Saline Mines, and E. A. Anderson, Ridgeway, Gallatin County; Saline County Coal Company's No. 1, Ledford; Moore & McDonald, Carriers Mills, John Cogdill, L. G. Dunn and J. L. Dunn, Stonefort, Saline County.

## CHANGE OF NAME

The names of the following mines have been changed: J. O. Baldwin to Dempsey & Walthen Bros.; J. E. Dempsey to W. R. Chinn; Harrisburg Southern to Big Creek Coal Co.; St. Louis Coal & Coke Co. to Galatia & Saline Coal Co.; T. S. Thompson to R. L. Clements; Hazel & Steele to Syers Bros.; Southard & Lynch to Macke Coal Co.; Yates & Reynolds to Yates & Land; Ollison & Edwards to James Edwards.

## PROSPECTIVE MINES

The Chicago, Wilmington and Vermilion Coal Co. is sinking a new modern mine, which will be fire-proof throughout. The main shaft is down about 500 feet and they expect to strike coal within the next few feet, while the air shaft is down a little over 400 feet. This mine is located four miles northwest of West Frankfort on a branch of the C., B. & Q. R. R.

The Ohio Valley Mining Co. is sinking a new and up-to-date mine, which will also be constructed of fire-proof material. The main shaft is down now about 100 feet, the depth of the coal at this point is about 500 feet. This mine will be known as their mine No. 9, which is located two miles east of West Frankfort.

The third shaft in the district to be completed under the new law, requiring them to be constructed of fire-proof material, was sunk by the Christopher Coal Mining Co., near Christopher, Franklin County.

The recently completed shafts were sunk by a method which is of much present day interest. Instead of employing reciprocating drills mounted on tripods or shaft bars, the company adopted hand feed hammer drills of the Sullivan Class D.B. 19 pattern. These were equipped with 1¼-inch hexagonal hollow steel, sharpened with 6-point rose bits and operated by air at 80-pounds pressure by a single stage air compressor having a capacity of 130 cubic feet of free air per minute. Air was furnished these drills through a 3-inch pipe, which was later used for automatic air signals.

The main shaft is 13x21 feet in the clear and was commenced May 27, 1912, and reached the coal vein, 12 feet in thickness, on November 27, 1912, 593 feet from the surface. The air shaft, 12 feet by 24 feet, was started a few days later and reached the coal in practically the same length of time. The formation penetrated varied from soft shale to the hardest kind of limestone.

The shafts are curbed in the usual way, using 6x12 yellow pine timbers, and a solid concrete wall was used down to the depth of 41 feet and rests on 12-inch I beam horn-set.

Steel buntons were used in both shafts and the sides were lined between the concrete with fire-proof material.

The escapement shaft is built in the same way and is equipped with a main and material hoist, the cage being 10 feet 6 inches by 6 feet. All material will be lowered in this mine at this shaft. The steps are made of steel.

Air will be furnished to the mine by a large fan run by two 150 H.P., A. C. General Electric motors.

The mine is equipped with electric haulage and will eventually use twenty-four haulage motors, including gathering motors; a number of these locomotives are arranged for tandem operation, so that in case of breakdowns, substitution can be made. All tandem locomotives can be used either as 6-ton gathering locomotives or 12-ton main line haulage locomotives.

The tippie shaker screen and tower at escape shaft was erected by the Wisconsin Steel and Iron Company of Milwaukee, Wis. The engine-house at hoisting shaft is 100x146 feet and is built of brick; the engine-house at escape shaft, blacksmith shop, office and other out-buildings are also built of brick, which makes this a fire-proof plant throughout.

This mine is located about one and three-fourth miles northwest of the Zeigler District Colliery Company's mine, and two and one-half miles northwest of Christopher, on the C., B. & Q. R. R., and has five loading tracks, one track to be used exclusively for loading box cars, thus not interfering with the regular loading.

The power plant is equipped with two 600 H.P. vertical boilers of the Butman type and provision has been made for space to install three more boilers as the occasion demands, making five boilers with a total of 3,000 H.P.

Above ground practically all the machinery, except the hoist, is operated by alternating current; while all the underground equipment is operated by 250 to 275 volts direct current, which is supplied by three 300 kilowatt synchronous motor generator sets, each composed of a 430 kv-a. 2,300 volt synchronous motor, a 300 kilowatt, 275 volt compound-wound direct current generator and a 7.5 kilowatt, 125 volt direct-connected exciter.

The hoist operates on the Ilgner system and is of a double drum type, having 7-foot drums designed for an effective load of 9,000 pounds in a car and cage, the combined weight of which is 11,000 pounds. Wire hoisting rope  $1\frac{3}{8}$  inches in diameter is used. The equipment is built to make 1,000 trips from a 600-foot depth in seven hours. The cycle arranged calls for six seconds acceleration, nine seconds at full speed, six seconds for retardation, and four seconds loading and dumping, which corresponds to a maximum rope speed of 2,400 feet per minute. The hoist is driven by a 1150 H.P., 550 volts, direct-current motor, direct connected to the drum shaft by a flexible coupling. This motor is designed especially for hoisting service and has large overload capacity. Power will be supplied to the motor by a fly-wheel motor generator set, consisting of a 650 H.P., 2,300 volt induction motor, and 880 kilowatt, 550 volt generator, a 17 kilowatt, 125 volt exciter, and a 22,600 fly-wheel. This unit operates at 600 revolutions per minute. It is interesting to note that, through the Leonard method of control and the application of the fly-wheel, it has been possible to decrease the capacity of the hoist motor, generator and induction motor progressively, contrary to usual practice. The speed and direction of the hoist will be controlled by a controller at the operating platform, by means of which the voltage and polarity of generator will be governed. The efficiency of this form of control, called the Leonard control, after its inventor, H. Ward Leonard, is very high, as there are no rheostatic losses, except the comparatively small ones in the field circuit of the generator. Fluctuations of the hoisting load are smoothed out by means of the fly-wheel and an automatic rheostat in the circuits of the induction motor.

The torque of the regulating motor varies with the line current, and when this current tends to exceed a predetermined value, the torque of the regulating motor will overcome the weight of the moving parts of the rheostat, introducing resistance into the motor circuits of the main induction motor, thereby causing the motor to slow down and allowing the fly-wheel to give up its energy. When the current tends to fall below the predetermined value, the weight of the moving parts of the rheostat will exceed a torque of the motor, and the resistance will be cut out automatically. The weight of the moving parts of the rheostat is counterweighted for purposes of the adjustment. In the control equipment are also included protective devices to guard against damage from overwinding, failure of alternating



current supply, loss of exciter voltage, loss of air pressure for the brakes, as well as extreme overloads. Both service and energy air-brakes are provided.

No mules are used in this mine, and as the company also expects to eliminate them from its present Ziegler District Colliery, thirty-two 6-ton electric mine locomotives, having a rating of 3,000 pounds drawbar pull at six miles an hour, are included in the installation.

For operating the conveyors, shaker screens, picking tables, pumps, etc., several small induction motors, ranging from 10 to 50 horsepower, will be installed. The current for these latter motors and the air compressor motor will be reduced by three 50 kv-a. transformers from 2,300 to 220 volts.

The equipment is completed by an 18-panel switchboard of dull black slate, 26 feet long, for controlling all the electrical apparatus. The board is fitted with all the necessary instruments, totalizing wattmeters being provided to record the total amount of energy delivered from the power station. The hoist is of the Ottumwa Iron Works make, and all the electrical apparatus, including the mine locomotives, was furnished by the General Electrical Company.

#### MINE DESTROYED AT EQUALITY

The mine of the Gallatin Coal and Coke Company was completely destroyed by the floods of last April. The water filling it on April 6th, and being followed by a series of outbursts that completely wrecked the entire plant.

This mine is one of the old operations of the State, having been sunk in 1882. It has never been operated on a large scale, 600 tons having been its greatest capacity. Altogether there has been taken out a little more than 200 acres of coal of the No. 5 seam, which is about 5 feet thick at this place.

The opening to this mine, which is a shaft 90 feet deep, was on the Louisville & Nashville Railroad, just at the west corporate line of the city of Equality, and about a 1,000 feet from the Saline River.

On driving the opening entries of the mine it was found that apparently the coal went to the outcrop to the east, and as the river was on the north it was not thought advisable to work in that direction, consequently the mine was all worked from one side, namely, the north, with cross entries leading to the east and west entries. The works extend north about one mile and were about a half mile in extent east and west at the greatest distance.

The level of the mouth of the shaft was about 1 foot above the 1884 flood, which was the greatest ever known in this part of the State and which was thought would never be equaled again.

About March 28 it was pretty well known that all previous water records would be broken here so they began to make efforts to protect the mine. They had a large crew of men dig trenches down to the clay and fill them with moist clay, tamping it in. Above the level of the surface they had a heavy timber retaining wall built on either side of this trench 6 feet apart, filling in between with clay and tamping it in. By April 1 the mine was surrounded by water and it became necessary to boat all material for the building of these levies a distance of several hundred feet.

April 2 the cribbing in the shaft gave way on the east side at a point about 20 feet below the surface, letting in considerable water and carrying away a part of the levee. They made renewed efforts, and with the assistance of the citizens who turned out almost to a man and did splendid work, they succeeded in getting this break stopped. On the morning of April 3, the cribbing in the shaft, which was old, gave way on the west side just above the rock, which is about 28 feet below the surface. This caused what had been an old slip to give way, taking into the shaft the levee on this side and with it the surface to a distance of 10 or 12 feet west of the mouth of the shaft. Again everybody responded, and again after untiring and heroic efforts on the part of the entire citizenship, they succeeded in stopping this break. It seemed for the next two days that the only effort needed was to keep their dykes above the rise of the water, which was a very difficult task now on account of them being more than 300 feet long, and having to handle



all material in small boats. They secured bags of sand and succeeded in keeping above the water by dint of great effort. Sunday morning, April 6, when the water was almost at its greatest height, they began to feel that they could and would succeed in keeping it out, when it was discovered that a very small stream was running in through the clay from the south side at a depth of possibly 10 feet below the surface of the water. They began strengthening the dykes on this side with sand bags, but before a great while they could see that this little stream was increasing in size. It steadily grew larger until 9:28 A.M. with a mighty inrush of what looked like the entire river, the water broke through under the levee, carrying it and everything for a hundred yards around into the shaft. The velocity of the water was so great that it carried pit cars and other objects that were near the pit head into the mine, and the suction pulled the end out of the engine and boiler room and the blacksmith shop.

In an hour and twenty-two minutes after the water had began running into the mine it completely filled the shaft, thereby trapping in all the air that was in the mine. The mine goes to the dip in all directions, being 13 feet lower at the air shaft than at the hoisting shaft and 48 feet lower in some of the northeast entries than at the main shaft. After the water had filled the opening at the main shaft and had filled the mine until the air could not escape at the air shaft, it continued to run in for five hours, all the time compressing the air that was behind it and trapping in more as the pressure and weight of water increased. At 3:50 in the afternoon of the 6th, after the water had been compressing the air for five hours, the air rebounded with a force that was almost beyond comprehension. It threw out mine cars, cages, huge concrete blocks, sheave wheels, engines and completely destroyed the entire top works. Water, stone, dirt, and machinery were thrown into the air to an estimated height of 500 feet. The sheave wheels, which had gone down the shaft together with the headframe, were blown out and fell over a hundred yards from the pit head, completely burying themselves in the hard earth.

Twenty-two minutes after the first outburst, a second one came, and, eight minutes after, was followed by a third, either of which were considerable less force than the first. The second outburst threw water to a height of possibly 150 feet, and a picture was made of it while in action by one of the local photographers. The third outburst, which rose to a height of probably 75 feet, was followed by numerous others, each in turn growing less and less until they were only huge air bubbles. This bubbling continued for more than a week before the mine finally filled. The shaft now stands to within 2 feet of the level of the surface and presents the appearance of an old well caved in around the top until it is about 40 feet across.

#### RE-OPENING SEALED TERRITORY AT ZEIGLER

The large territory which was sealed, on account of a fire in 1908, was successfully re-opened May 14, 1913. The work was started from the third and fourth right entries, off the sixth west south. There was a block of coal to go through of 75 feet. This coal was cut by chain machines until the advance holes, which were drilled 15 feet ahead by a compressed air drill, had gone through when the coal was cut by an air-punching machine, and sheared down so as not to have to shoot. After getting the coal down so as to get air in the sealed-off workings, temporary brattices were put in; this was followed up with permanent wood stoppings, which were plastered with wood fiber. Two experienced men went ahead at all times exploring for the safety of the men, until it was ascertained the fire at room 18 was out. Then the walls were opened by cutting around with hand picks, which was both dangerous and slow. When this was done, all the men were called out, except the inspectors and management of the mine. The walls were opened one at a time in less than three-quarters of an hour. Rails, trolley wire, pit cars and machines were recovered and a large territory, that will materially increase the output of the mine, re-opened.

There is also a territory that has been sealed up since 1910 on account of a squeeze, the pillars having been drawn previous to that time. This

was opened on the same system. The third west south territory has not shown any signs of gas since it was cleared out. The territory just recovered makes this mine a complete circle, one of the best in the State, and one of the largest producers. The work was done with electric lamps, no safety lamps being allowed in the mine, except by those who were directing the work. Every precaution was taken in regard to safety. All hammers used in bratticing were made of copper, and helmets were worn by the men in charge when necessary.

The work was done under the direction of the State and county inspectors, R. H. Zoller, general manager; Joseph Yerly, superintendent, and Nels Johnson, mine manager.

#### EXPLOSION AT ELDORADO COAL MINING CO.

February 19, 1913, I received a message about 10:15 A.M. at Equality, Gallatin County, that an explosion had occurred at the above named mine at 7:20 A.M. I immediately notified the manager, Oscar Carlidge, and Superintendent J. C. Duncan of the Benton Mine Rescue Station of the accident, then got a rig and drove through the country a distance of eight miles, and arrived at mine about 12:15 P.M., and found that four lives had been lost and three men badly injured, and were just bringing the last body up.

The explosion occurred immediately after the last cage of men had descended for work, and was caused by ignition of accumulated gas at the face of the third and fourth west north. The explosion was confined to this portion of the mine and as a result only those working in that locality were in danger. Immediately after the explosion Superintendent Ginney organized a rescue party, having first sent out call for assistance. District Superintendent Bagwell of the O'Gara Coal Co., together with his mine managers and assistants from O'Gara Mines Nos. 8, 10 and 11, responded. As soon as Mr. Bagwell arrived on the scene he called the general office of the O'Gara Coal Co., at Harrisburg, and requested the regular rescue corps of the company, together with all the equipments, to be sent to the mine at once. This request was received at the office at 8:00 A.M., and at 8:45 the rescue corps, in charge of O'Gara Mine Inspector C. A. Horning and District Superintendent J. J. Morris arrived at the scene of disaster, the Big Four Railroad Company having furnished a special train to carry the entire party, which was made up of Mine Inspector C. A. Horning, Superintendent J. J. Morris, Superintendent W. H. Stricklin, Superintendent Richard Neeson, Mine Manager Frank Keesner, Robert Wright, R. F. Macklin, James Cook, James Pyre, Sherman Walters and Jake Ingram. Upon the arrival at the scene those in charge of the O'Gara Rescue Corps, co-operated with the mine management in organizing parties for going into the mine and recovering those who had not succeeded in escaping. Messrs. William Taylor and James Robinson, who were familiar with the workings of the mine and regularly certified rescue men, were equipped with Draeger helmets and went to the scene of the explosion. These two men were followed up by Messrs. Horning, Ginney, Morris, Bagwell and others with pulmotors, stretchers, etc. At 10:30 o'clock the first body was recovered. The other three were recovered soon thereafter. In the meantime, however, the two men who were severely burned had been carried out to the parting and at first they were both supposed to have succumbed to the effects of the explosion, but the pulmotors were immediately brought into use, and after patient efforts of over half an hour on each man, they were resuscitated. This work was ably assisted in by Superintendent Morris of the Saline County Coal Co. and his entire rescue corps, consisting of Charles Stahlbert, Walter Scott, Charles Tinsey, William Taylor, Charles Cathcart, Bertram Peak, William Schuman and James Johnson, who had been furnished with a special engine by the Big Four, and they arrived at the mine when their assistance was most needed. Soon after these two men who were injured had been resuscitated, it was found that three of the rescue party who had rashly rushed into the effected portion of the mine were down from the effects of noxious gases. Again the pulmotors were brought into use and it was only through the efficient work of the men in charge of the pulmotors that their lives were saved.

The most heroic act of the occasion was performed by Mr. Thomas Harris of O'Gara No. 11 Mine, who was one of the party following the helmet men. He rushed into a part of the mine hot with noxious gases, and brought out the men who were afterwards resuscitated by the use of pulmotors. Had Mr. Harris not acted promptly at this time, the list of fatalities would have been two greater. After the bodies had all been recovered, I took a party consisting of Oscar Cartlidge, manager of the Illinois Mine Rescue Station; J. C. Duncan, superintendent of the Benton Rescue Station; Bernard Cosgrove; James Schrader, county mine inspector of Saline County; Edward Langhron, county mine inspector of Franklin County, and mine officials, and descended into the mine to investigate the cause of the explosion; taking the main air course up the first west north to a point where the second west north is connected to the third west north by a pair of stub entries, and going through a brattice from the first to the second, found that the ventilating current was heavily charged with afterdamp, so decided to leave the mine and let it clear out until the following day. February 20th we descended and penetrated the territory of explosion and found several stoppings blown and doors deranged and some gas at the faces of same two entries, so returned out of mine, started repair work and restoring ventilation, and the mine resumed work February 24, 1913.

#### MINES EQUIPPED WITH MINE RESCUE APPARATUS

Two companies in the Eleventh District have provided at their mines a complete set of mine rescue apparatus, oxygen helmets, pulmotors, stretchers and first aid outfits. The companies are the O'Gara Coal Company, with C. A. Horning in charge, and the Saline County Coal Co., with Walter Scott in charge. The work of the latter's team has proven very effective in several cases during the year, and this company enforces the most rigid discipline with a consequent small number of accidents and spends a great deal of money in preventive measures.

#### IMPROVEMENTS

The Hickory Hill Coal Company, Equality, Gallatin County, has made the following improvements: Installed new boiler, 6 feet diameter, 18 feet long, with seventy 4-inch flues, built by Peltz & Co.; pair of haulage engines 12x24, Crawford and McCrimmon Company make, for rope haulage; new tippie and incline to mouth of slope, shaker screens, reconstructed railroad switches and overhauled the plant inside and out, which makes this mine up-to-date.

The Sesser Coal Co., Sesser, Franklin County, installed a new 300 K.W. Westinghouse D.C. generator, built by the Westinghouse Electric and Manufacturing Co., a Nicholson engine stop to prevent overwinding, thus eliminating wrecks, 125 3-ton pit cars, built by the Watt Car Wheel and Manufacturing Co., one 15-ton Westinghouse main line motor, two 6-ton gathering motors (Westinghouse), two new electric long wall chain machines 6 feet 6 inches long, Class C. E., built by the Sullivan Machinery Co.; new office along railroad track equipped with a Streater Amet automatic weighing device; new concrete machine shop, 30x40, with steel trussed roof, to be equipped with lathe and other machines to make an up-to-date machine shop.

The Zeigler District Colliery Co., Christopher, Franklin County, has made the following improvements: Six 21-A 7 feet electric mining machines of the Jeffery type, nine 6-ton general electric gathering motors, one 300 K.W. motor generator set, which run from the Egyptian Electric Company's power plant.

The W. P. Rend Collieries Co., Rend, Franklin County, has made the following improvements: A new supply-house 50x100; a new 10-inch by 6-inch by 10-inch Worthington hot water pump; a new coal drag to convey coal from tippie to boiler-room; new guides have been put in both compartments of hoisting shaft, also the shaft bottom has been changed from a two-sided shaft and arranged for the coal to be caged from one side; new air-

ways have been driven; a number of fire-proof stoppings erected, and the mine has had a general overhauling, which is a great improvement to this property.

The United Coal Mining Co., Christopher, Franklin County, has installed at No. 1 mine, two new cylinders, size 24x12, for their hoisting engines, built by the Danville Foundry and Machine Co.; also two 6-ton Goodman gathering motors. At Mine No. 2, Buckner, the following improvements have been made: Four new 6-ton Goodman gathering motors, twelve new Goodman electric mining machines 5½ feet long; a Phillips automatic cager and Jeffery chain haul, operated by two 20 H.P. motors to feed loads to cage; one Gould electric pump operated by a 20 H.P. motor; 143 new 4-ton pit cars; a re-screening plant, built by Allen and Garcia Co., with five bins, having a capacity of 250 tons each, operated by a 40 H.P. motor, and provided the railroad weighing office with a new Streater Amet automatic weighing recorder.

The Franklin Coal & Coke Co., Royalton, Franklin County, made the following improvements: Five electric 6-foot chain breast machines, Goodman type; one Sullivan short wall electric chain machine; three 5-ton Goodman gathering motors; one 6-ton general electric gathering motor; a new Sirocco fan, 20-ft. diameter, 5-ft. wide, housed in a brick, steel and concrete house, guaranteed to deliver 200,000 cubic feet of air per minute against a resistance of a 5-inch water gauge when running at not to exceed 225 R. P. M., direct connected to a 18x26 Skinner engine; one 300 H.P. Erie City water tube boiler, complete with 100-ft. stack 4 feet in diameter; ninety new 3-ton mine cars, and provided the mine below with two steel and concrete overcasts, a 20x50 machine repair shop and equipped with a 18x8 Bradford Muller lathe, and a 25-inch drill press, together with the necessary tools to make all necessary repairs to electric equipment and machinery in the mine; one Deming triplex plunger 4x6 pump direct connected to a Westinghouse motor, and a pair of Olsen steel self-dumping cages with automatic release attachment, made by the Eagle Iron Works of Des Moines, Iowa, and two apron conveyor picking tables 30 feet long for handling the lump and egg coal.

The Southern Illinois Coal & Coke Company, Freeman, Franklin County, has equipped Possum Ridge Mine with a 7-ton gasoline motor, which has given very good satisfaction.

The West Frankfort Coal Co., West Frankfort, Franklin County, has added to its equipment a new brick fire-proof engine room 38x40 feet; four new Morgan Gardner electric chain machines; one Sullivan long wall electric 6-foot mining machine; thirty-two 3-ton pit cars; one new Blakeslee duplex pump, size 4½x8x10; one Fairbanks railroad track scale, 50 feet long with 200,000 pounds weighing capacity; two new smoke stacks; 9,000 feet copper wire, and 500 feet of lead cable down main shaft.

The Ohio Valley Mining Co., West Frankfort, Franklin County, has installed at No. 8 mine two new boilers, tubular, 150 H.P. each, with seventy 4-inch flues, 6 feet in diameter and 18 feet long; two 6-ton electric Jeffery motors; four Jeffery electric mining machines; one set of automatic safety mine car cages, with stop made by the Mining Safety Device Co., Bowerston, Ohio; twelve new spirals in the re-screening plant; a conveyor to take the 3-inch egg coal from the shaker screen to the re-screening plant, and built a fire-proof supply-house, 69x19 feet.

The Dering Coal Co., West Frankfort, Franklin County, made extensive improvements during the past year at No. 11 and 18 Mines. At Mine No. 11, a new two-story office and storeroom has been built of brick, at an approximate cost of \$5,000.00. The upstairs is given over to offices and the downstairs is used as a supply-room and bath for the bosses. Both the north and south cagerooms have been reconstructed by building 400 feet of concrete side walls each way from the hoisting shaft, making 800 feet in all and averaging 11 feet in height and 18 inches in thickness. The walls are cross barred with 12-inch, 15-inch and 18-inch steel I beams, 18 feet long. There has also been over 400 feet of concrete arch built in the main entry and



east air course, and 100 feet of arch at the bottom of the air shaft, making the air shaft absolutely fire-proof. The arches are all 9 feet high in the clear. In addition to the above there has been installed three double-arch concrete overcasts and all the old stoppings are being replaced by concrete stoppings. A new 8-inch air line has been placed in the shaft and 100 new pit cars put in service. The company has purchased an extra Bond cage, which is set up and ready for use in an emergency. A new feed barn 30x70 feet has been built, and a new generator and engine have been installed for furnishing lights for the top and new office building. A new boiler feed pump has also been placed in service.

The amount of concrete arch built at the No. 18 mine is one of the most notable improvements of this company. The cageroom has an arch 40 feet long and 19 feet wide and 9 feet high in the clear, and 600 feet of arch in the main and back north entries has been built. This work was necessitated by the explosion which occurred at this mine February 16, 1908, causing many falls, more especially at the bottom and the above mentioned entries. A double concrete overcast has been completed and three more of these will be made as soon as possible. Fifty new 3-ton pit cars have been put in service in this mine.

The Bell & Zoller Mining Company, Zeigler, Franklin County, has equipped its mine with seventy-five new 4-ton mine cars; a Crawford and McCrimmon fan engine; one new 13-ton and two new 6½-ton Goodman motors; four new Goodman electric chain breast mining machines; one boiler feed pump; one large electric pump to pump water from the river, and a new re-screening plant of steel throughout having tubular steel bins, erected by Allen & Garcia of Chicago, Ill.

The Saline County Coal Co., Harrisburg, at No. 2 mine, one 8-ton Jeffery gathering motor, and at No. 3 mine one 6-ton Goodman gathering motor, one 10-ton Jeffery gathering motor, one 6-ton Morgan Gardner gathering motor, one 7-foot Morgan Gardner electric chain mining machine, and sixty 4-ton pit cars have been installed.

The Wasson Coal Company, Wasson, Saline County, has installed at its mine an automatic caging device made by the Mining Safety Device Company, Bowerston, Ohio; one 10-ton Morgan Gardner motor, 100 new mine cars and one Morgan Gardner electric mining machine.

The Eldorado Coal and Mining Co., Eldorado, Saline County, has improved its mine by putting in overcasts, building permanent concrete stoppings, cleaning roads, and made a general overhauling, which is a great benefit to the ventilation.

The O'Gara Coal Co., Harrisburg, has replaced the two old fans at Nos. 8 and 9 mines by two large ones, housed in concrete and steel houses, and capable of producing double the amount of air, which is a great improvement to the ventilation of these mines.

#### FATAL ACCIDENTS

July 8, 1912, James Beattie, timberman, aged 55 years, married, lost his life in Dering Coal Company's Mine No. 11, West Frankfort, Franklin County. Deceased was taking out some low timbers when he was caught by falling rock and killed instantly. He leaves a widow and five children.

July 29, 1912, William Sherwood, miner, aged 33 years, married, was killed by pit cars at the Ohio Valley Mining Company's Mine No. 8, West Frankfort, Franklin County. He leaves a widow and two children.

August 15, 1912, Edward Wilson, driver, aged 19 years, single, died from injuries received by pit cars July 26, 1912, in the O'Gara Coal Company's Mine No. 10, Eldorado, Saline County.

September 4, 1912, Gustav Marconi, miner, aged 30 years, single, was killed by falling from cage at Dering Coal Company's Mine No. 18, West Frankfort, Franklin County. Deceased was coming up shaft with nine others at quitting time and when some distance up the shaft from some unknown cause he lost his balance and fell from the cage to the bottom of shaft.

September 17, 1912, Olney Jenkins, driver, aged 22 years, single, lost his life while working at Mine No. 1 of the Franklin Coal and Coke Company at Royalton. Deceased was delivering powder which became ignited and resulted in an explosion, causing his death.

September 23, 1912, Barney Chiaro, miner, aged 22 years, single, was killed at the United Coal Mining Company's Mine at Christopher, Franklin County. Deceased went down with a cage load of men and while the men were getting off the cage was taken away, catching him between cage and timbers and throwing him back into the sump.

September 30, 1912, James Olivetta, miner, aged 26 years, married, employed by West Frankfort Coal Company, West Frankfort, Franklin County, was killed by an explosion of dynamite caps and a box of permissible explosives. He leaves a widow and two children.

October 5, 1912, John Tomzik, miner, aged 32 years, married, was killed at the Ohio Valley Mining Company's Mine No. 8, West Frankfort, Franklin County. Deceased was loading a car of coal when a piece of loose coal fell from the face, striking him on the back and throwing him against a tie on the track, killing him instantly. He leaves a widow.

October 7, 1912, Joseph Matecheyich, machine runner's helper, aged 36 years, was killed at the Bell and Zoller Mining Company's Mine, Zeigler, Franklin County, by falling coal.

October 9, 1912, Charles Crabosky, timberman, aged 41 years, married, was killed in mine No. 18, Dering Coal Company, West Frankfort, Franklin County, by falling rock. He leaves a widow and two children.

October 15, 1912, Henry Sprange, miner, aged 28 years, married, employed at the O'Gara Coal Company's Mine No. 3, Harrisburg, Saline County, was killed by falling rock. He leaves a widow.

October 15, 1912, James Oysten, laborer, aged 56 years, married, was killed in the Benton Coal Company's Mine, Benton, Franklin County, by being run over by empty cars. He leaves a widow and seven children.

October 26, 1912, John Satona, laborer, aged 33 years, single, employed at mine No. 1 of the Zeigler District Colliery Company, Christopher, Franklin County, was killed by pit cars.

October 30, 1912, Mike Mahley, miner, aged 28 years, single, was killed by a fall of coal in the Bell and Zoller Mining Company's mine, Zeigler, Franklin County. Deceased was taking out a prop from under some loose top coal and while he was striking it with his sledge the prop broke, letting down about twenty tons of coal, which caught him before he could get in the clear.

October 31, 1912, Lee Smith, cager, aged 27 years, married, employed at the United Coal Mining Company's Mine No. 2, Buckner, Franklin County, was killed by a machine jack falling down the shaft. Deceased and his partner had been working with two jacks on a loaded car, which had been stuck before it landed on cage. They left the jacks close to the cage pit, and after caging about seven more cars one of these jacks fell down the shaft striking him on the head and shoulder, throwing him into the cage pit, killing him instantly. He leaves a widow.

November 19, 1912, Simeon Kaski, timberman, aged 19 years, single, was killed by falling rock in Bell & Zoller Mining Company's Mine, Zeigler, Franklin County.

November 25, 1912, John Arlidge, driver, aged 30 years, was killed in the Zeigler District Colliery Company's Mine, Christopher, Franklin County, while he was riding on a timber truck. The motor was pushing a trip of eighteen cars, with timber truck between motor and trip, when the truck jumped the track, knocking out four sets of timbers, which let about ten tons of dirt and rock fall, killing him instantly. He leaves a widow and two children.

December 9, 1912, Joseph Lorento, miner, aged 41 years, married, was killed in the Franklin Coal and Coke Company's Mine, Royalton, Franklin County, being struck by a trip of loaded cars. He leaves a widow and two children.

December 21, 1912, Quincy Overturf, weighman, aged 42 years, married, was killed by falling down the shaft of the United Coal Mining Company's

No. 2 Mine, Buckner, Franklin County. After the men had all gone down deceased was taking the checkboard up in the tippie, riding on top of the cage. The cage was stopped just before going into the dump and he handed the checkboard to the checkweighman, who was standing on the runway, which was 4 feet from the cage; he then stepped from the cage onto an angle bar which was between the cage and the runway, and from some cause he lost his hold and fell, hitting another cross-bar, which threw him directly over into the shaft. He leaves a widow and four children.

December 26, 1912, Ruel McDowel, miner, aged 22 years, single, employed at O'Gara Coal Company's Mine No. 4, Harrisburg, Saline County, was killed by a fall of rock.

December 27, 1912, John Plumlee, miner, aged 42 years, married, lost his life while working at the O'Gara Coal Company's Mine No. 10, Eldorado, Saline County, by falling rock. He leaves a widow and one child.

January 4, 1913, G. Rabschini, miner, aged 30 years, single, employed at W. P. Rend Collieries Company's Mine, Rend, Franklin County, was killed by falling rock.

January 4, 1913, J. R. Waller, miner, aged 42 years, single, employed at Big Creek Coal Company's Mine, Grayson, Saline County, was killed by falling rock. He leaves four children dependent upon him.

January 6, 1913, Deria Moreau, miner, aged 57 years, married, employed at O'Gara Coal Company's Mine No. 3, Harrisburg, Saline County, was instantly killed by flying coal from a shot explosion. He leaves a widow and three children.

January 7, 1913, Joe Guindo, miner, aged 34 years, married, employed at Southern Illinois Coal Company's Mine, Freeman, Franklin County, was killed by a loaded car running onto him. He leaves a widow and two children.

January 9, 1913, Henry Banlet, miner, aged 23 years, married, was killed by an explosion of gas, while working in the United Coal Mining Company's Mine No. 1, Christopher, Franklin County. He leaves a widow and one child.

January 9, 1913, Hiram Hazel, miner, aged 42 years, single, was killed by coming in contact with an electric trolley wire while working at the Wasson Coal Company's Mine at Wasson, Saline County. Deceased had just come to shaft bottom to go home; he started to climb in between the loaded cars and in doing so came in contact with the live trolley wire.

January 24, 1913, Toney Baltro, miner, aged 47 years, married, lost his life by falling rock while working in the O'Gara Coal Company's Mine No. 4, Harrisburg, Saline County. Deceased was going from the face of his room to his box, which was out on the entry, when a large piece of rock fell, crushing him about the hips so badly that he died about one and one-half hours later. He leaves a widow and four children.

February 6, 1913, Dominick Arzinia, miner, aged 24 years, single, was killed by coming in contact with the live electric machine wire while working in the Wasson Coal Company's Mine, Wasson, Saline County.

February 15, 1913, Fred Jenells, miner, aged 27 years, married, was killed in the No. 10 Mine, O'Gara Coal Co., Eldorado, Saline County, by falling rock. Deceased was working off a loose piece of coal at the face of his room when a piece of rock fell on him. He leaves a widow and two children.

February 19, 1913, Chasen Cimonneti, miner, aged 19 years, single; August Moretto, miner, aged 22 years, single; Joe Cinsetti, miner, aged 20 years, single, and Alex. Vinnettie, miner, aged 19 years, single, lost their lives in the Eldorado Coal & Mining Company's Mine at Eldorado, Saline County, by an explosion of gas. They had just reached their working places when they came in contact with accumulated gas, which ignited and resulted in their deaths.

February 24, 1913, A. G. Douglas, miner, aged 42 years, married, lost his life while working at the Sesser Coal Company's Mine, Sesser, Franklin County. Deceased had just come to the bottom at quitting time to be hoisted out; he was crowding between a loaded car and rib to get into the



refuge place when a trip of cars struck the one standing at refuge place and caught him between rib and corner of car, crushing him through the chest, breaking his arm and causing injuries from which he died two hours later. He leaves a widow and three children.

March 10, 1913, Thomas Ellwood, miner, aged 21 years, married, lost his life while working in the Ohio Valley Mining Company's Mine, West Frankfort, Franklin County, by falling coal. He leaves a widow.

March 10, 1913, William A. Cook, miner, aged 42 years, married, was killed at the Dering Coal Company's Mine No. 18, West Frankfort, Franklin County. Deceased was timbering when a large piece of rock fell on him, breaking his neck.

March 22, 1913, G. W. Grable, trip-rider, aged 22 years, married, lost his life in the Saline County Coal Company's Mine No. 3, Harrisburg, Saline County, by pit cars. He leaves a widow and one child.

June 3, 1913, Fred Herron, machine man, aged 26 years, single, was killed while working at the O'Gara Coal Company's Mine No. 12, Harrisburg, Saline County, by falling coal.

June 6, 1913, Adam Alderson, miner, aged 56 years, married, employed at the Southern Illinois Coal & Coke Company's Mine No. 1, Freeman, Franklin County, was killed by falling coal. He leaves a widow and two children.

June 13, 1913, Charles Ramproni, driver, aged 19 years, single, employed at the Southern Illinois Coal & Coke Company's Mine No. 1, Freeman, Franklin County, was found in the sump underneath the cage, dead. Deceased was working on night shift; just as shot-firers came up on the cage, he reached over to get a light, and in doing so let his lamp fall down the shaft. He got a lamp from one of the shot firers and went down to get his own. The rest of the shift went down a few minutes later and found him in the sump under the cage, dead. It is thought that he fell in the sump and the cage came down on him.

Respectfully submitted,

FRANK ROSBOTTOM

*State Inspector of Mines, Eleventh District, Benton, Ill.*

### FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
July 8	James Beattie	55	Timberman	West Frankfort	1	1	5	6		Falling rock
29	Wm. Sherwood	33	Miner	do.	1	1	2	3		Pit car
Aug. 15	Edward Wilson	19	Driver	Eldorado		1				do.
Sept. 4	Gustav Marconi	30	Miner	West Frankfort		1				Fell off cage
17	Olney Jenkins	22	Driver	Murray City		1				Powder explosion
23	Barney Chiaro	22	Loader	Christopher		1				Cage
30	James Olivetta	26	Miner	West Frankfort	1	1	2	3		Dynamite explosion
Oct. 5	John Tomzik	32	do.	do.	1	1		1		Falling coal
7	Joseph Matechevich	36	Machine runner	Zeigler		1				do.
9	Chas. Crabosky	41	Timberman	West Frankfort	1	1	2	3		Falling rock
15	Henry Sprange	28	Miner	Harrisburg	1	1		1		do.
15	James Oysten	56	Laborer	Benton	1	1	7	2		Pit car
26	John Satona	33	do.	Christopher		1				do.
30	Mike Mahley	28	Miner	Zeigler		1				Falling coal
31	Lee Smith	27	Cager	Buckner	1	1		1		Falling jack
Nov. 19	Simeon Kaski	19	Timberman	Zeigler		1				Falling rock
25	John Arlidge	30	Driver	Christopher	1	1	2	3		do.
Dec. 9	Joseph Lorrento	41	Miner	Royalton	1	1	2	3		Pit car
21	Quincy Overturf	42	Weighman	Buckner	1	1	4	5		Fell down shaft
26	Ruel McDowel	22	Miner	Harrisburg		1				Falling rock
27	John Plumlee	42	do.	Eldorado	1	1	1	2		do.
1913										
Jan. 4	G. Rabschini	30	do.	Rend		1				do.
	J. R. Waller	42	do.	Grayson		1		6	4	do.
	Derira Moreau	57	do.	Harrisburg	1	1	3	4		Flying coal
	Joe Guindo	34	do.	Freeman	1	1	2	3		Pit car

FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1913										
Jan. 9	Henry Banlet.....	23	Miner.....	Christopher.....	1	1	1	2		Gas explosion.....
9	Hiram Hazel.....	42	do.....	Wasson.....	1	1				Electrocuted.....
24	Toney Baltro.....	47	do.....	Harrisburg.....	1	1	4	5		Falling rock.....
Feb. 6	Dominick Arzinia.....	24	do.....	Wasson.....	1	1				Electrocuted.....
15	Fred Jenells.....	27	do.....	Eldorado.....	1	1	2	3		Falling rock.....
19	Alex Vinnettie.....	19	do.....	do.....	1	1				Asphyxiation.....
19	Joe Cinsetti.....	20	do.....	do.....	1	1				do.....
19	Chasen Cimoneti.....	19	do.....	do.....	1	1				do.....
19	August Moretto.....	22	do.....	do.....	1	1				do.....
24	A. G. Douglas.....	42	do.....	Sesser.....	1	1	3	4		Pit car.....
Mar. 10	Thomas Ellwood.....	21	do.....	West Frankfort.....	1	1				Falling coal.....
10	Wm. Cook.....	42	Timberman.....	do.....	1	1				Falling rock.....
22	G. W. Grable.....	22	Trip rider.....	Harrisburg.....	1	1	1	2		Pit car.....
June 3	Fred Herron.....	26	Machine helper.....	do.....	1	1				Falling coal.....
6	Adam Alderson.....	56	Miner.....	Freeman.....	1	1	2	3		do.....
13	Chas. Ramproni.....	19	Driver.....	do.....	1	1				Cage.....
	Total.....				22	19	22	51	65	

## RECAPITULATION OF FATAL CASUALTIES, ELEVENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of Accident	No.	Colliery	No.
Benton.....	1	Cager.....	1	Asphyxiation.....	4	Bell & Zollar.....	3
Buckner.....	2	Drivers.....	4	Cage.....	2	Benton.....	1
Christopher.....	4	Laborers.....	2	Dynamite explosion.....	1	Big Creek.....	1
Eldorado.....	7	Loader.....	1	Electrocuted.....	2	Dering.....	4
Freeman.....	3	Machine helper.....	1	Falling coal.....	7	Eldorado.....	4
Grayson.....	1	Machine runner.....	1	Falling jack.....	1	Franklin.....	2
Harrisburg.....	6	Miners.....	25	Falling rock.....	12	O'Gara.....	8
Murray City.....	1	Timbermen.....	4	Fell down shaft.....	2	Ohio Valley.....	3
Rend.....	1	Trip rider.....	1	Gas explosion.....	1	Rend, W. P.....	1
Royalton.....	1	Weighman.....	1	Pit cars.....	8	Saline County.....	1
Sesser.....	1			Powder explosion.....	1	Sesser.....	1
Wasson.....	2					Southern Illinois.....	3
West Frankfort.....	8					United C. M.....	4
Zeigler.....	3					Wasson.....	2
						West Frankfort.....	1
						Zeigler Dist.....	2
Total.....	41		41		41		41

## NON-FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July 10	Roy Granstaff.....	22	Harrisburg.....	1	1			Hand injured, pit car.....	35
16	Ignas Lizouska.....	35	Dorrisville.....	1				Head injured, falling coal.....	43
18	Paul Balog.....	39	Muddy.....	1		5		Leg injured, pit car.....	62
22	James Land.....	21	Harrisburg.....	1	1			Leg broken, pit car.....	62
27	Leslie Harrison.....	22	do.....	1				Leg injured, pit car.....	36
30	Sam Hall.....	39	Christopher.....	1		2	3	Leg broken, falling coal.....	225

## NON-FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Aug.	2 Frank Murphy.....	26	Harrisburg.....	1				Legs injured, machine.....	59
	3 Jack Cable.....	45	Grayson.....	1		4	5	Leg broken, falling rock.....	240
	3 Tom Seacock.....	23	Zeigler.....	1	1			Head injured, falling slate.....	50
	7 Mike Timosch.....	25	do.....	1			1	Leg broken, pit car.....	150
	9 Wm. Barney.....	43	Benton.....	1		3	4	Toe injured, machine.....	30
	10 Adam Kuzim.....	35	Dorrisville.....		1			Back injured, falling coal.....	73
	13 Milton Owen.....	21	Muddy.....		1			Ankle injured, pit car.....	40
	14 Chas. Murphy.....	52	W. Frankfort.....	1		3	4	Body injured, fell down.....	47
	14 William Lemduck.....	38	Zeigler.....	1		1	2	Toe broken, falling rail.....	37
	15 Andrew Radasi.....	42	Muddy.....	1		2	3	Finger broken, falling slate.....	42
	20 Donines Frense.....	30	W. Frankfort.....	1		5	6	Legs injured, pit car.....	63
	20 Barney Cash.....	17	Eldorado.....	1	1			Foot injured, motor.....	30
	21 Joe Lipsey.....	25	Zeigler.....	1		1	2	Leg injured, railroad car.....	30
	22 Tim Sullivan.....	34	Ledford.....		1			Arm broken, pit car.....	60
	24 Anton Burnitski.....	47	Royalton.....	1		1		Finger injured, machine.....	147
	24 Gibson Williams.....	25	Harrisburg.....	1			1	Pelvis bone broken, pit car.....	56
	28 Jim Rasntes.....	27	Royalton.....		1			Back injured, pit car.....	69
	29 John Sael.....	32	W. Frankfort.....	1		1	2	Body injured, pit car.....	32
Sept.	6 Robert Sullivan.....	28	Carriers Mills.....	1		1		do.....	90
	7 Joe Annltoroski.....	23	Royalton.....		1			Body burned, powder explosion.....	113
	7 Chas. Branch.....	21	Harrisburg.....	1		3	1	Fingers injured, pit car.....	30
	17 Victor Steplich.....	30	Royalton.....	1		3	4	Body burnt, powder explosion.....	125
	17 Joe Lemons.....	37	Harrisburg.....	1		3	4	Leg injured, premature blast.....	37
	17 Mathew Parker.....	29	do.....	1			1	Eye destroyed, premature blast.....	30
	21 Mike Bokoski.....	24	Royalton.....		1			Fingers injured, pit car.....	57
	21 Mike Slimock.....	43	W. Frankfort.....	1		3	4	Back injured, falling coal.....	79
	23 Ely Shalasky.....	40	Christopher.....	1				Head injured, cage.....	*
	25 Joe Dillion.....	23	Zeigler.....		1			Leg injured, pit car.....	30
	25 Steve Knborscik.....	28	Ledford.....	1			1	Arm broken, falling coal.....	42
	27 James Durando.....	35	Buckner.....		1			Body injured, pit car.....	*
	28 David Curie.....	35	Hanaford.....		1			Leg injured, falling coal.....	40
	30 John Stiff.....	53	Harrisburg.....	1		6	7	Leg injured, falling slate.....	51
Oct.	1 Jas. Gilmartin.....	23	Carriers Mills.....	1				Hand injured, pit car.....	36
	4 T. Goff.....	54	Harrisburg.....	1		2	2	Body burned, gas explosion.....	180
	5 George Harrison.....	35	Rend.....	1			1	Body burned, premature blast.....	42
	6 Bert Davis.....	25	Eldorado.....	1			1	Head injured, falling wrench.....	35
	10 Bailey Butler.....	20	Zeigler.....		1			Arm cut off, machinery.....	140
	10 John T. Tavender.....	43	Carriers Mills.....	1		3	4	Leg injured, falling slate.....	150
	17 Mike Graer.....	44	Eldorado.....		1			Back injured, falling coal.....	47
	18 Geo. Petrich.....	19	Royalton.....		1			Body burned, gas explosion.....	102
	19 Jno. W. Pomeroy.....	57	Harrisburg.....	1		7	8	Foot injured, falling slate.....	36
	22 John Vrobel.....	23	Sesser.....		1			Jaw broken, machine.....	30
	23 George Beggs.....	24	Carriers Mills.....	1		1	2	Leg broken, falling slate.....	98
	24 Jesse Farmer.....	32	Harrisburg.....	1		2	3	Leg broken, pit car.....	72
	26 Thos. Smith.....	35	Sesser.....	1		4	5	Ribs broken, falling rock.....	30
	26 A. J. Childers.....	31	Harrisburg.....	1		3	4	Body injured, falling slate.....	75
	28 Ed. Norman.....	30	Sesser.....	1		2	3	Leg broken, railroad car.....	90
	28 Mike Murphy.....	34	Rend.....		1			Finger injured, falling coal.....	42
	28 Issac Roberts.....	30	Herrin.....		1			Arm broken, kicked by mule.....	68
	29 Ben Morris.....	19	Benton.....	1				Leg broken, pit car.....	90
	30 Joe Haraburda.....	40	W. Frankfort.....		1			Arm broken, pit car.....	90
	31 Charles Aaron.....	39	Herrin.....	1				Collar bone broken, pit car.....	46
Nov.	1 Geo. Zaltan.....	42	Eldorado.....	1		1	2	Leg broken, falling slate.....	98
	2 Frank E. Frederick.....	21	Benton.....		1		1	Leg broken, pit car.....	120
	3 Royce Vaughn.....	25	Carriers Mills.....		1			Foot injured, pit car.....	40
	4 Cryrus Biggs.....	21	W. Frankfort.....	1				Head injured, pit car.....	53
	6 Adam Lucksich.....	29	Zeigler.....		1			Collar bone broken, falling coal.....	120
	7 Felix Fortana.....	45	Buckner.....	1		1	3	Wrist injured, pit car.....	53
	7 Sam Cook.....	22	Christopher.....		1			Shoulder injured, cage.....	36
	9 Ed. Kirkpatrick.....	25	do.....	1		1	2	Finger broken, pit car.....	39
	11 Oza Pyles.....	35	Carriers Mills.....	1		2		Body injured, machine.....	91
	12 John Diamond.....	26	Eldorado.....	1		1	2	Ankle injured, machine.....	30
	15 Rosco Weatherly.....	23	do.....		1			Leg broken, pit car.....	90
	16 Frank Magolene.....	22	Sesser.....		1			Ankle injured, pit car.....	30
	18 Harney Furlsw.....	19	Mulkeytown.....		1			Collar bone broken, pit car.....	35
	18 Oscar Gullede.....	24	Harrisburg.....		1			Foot broken, pit car.....	48
	19 Simon Jodomiski.....	40	Herrin.....	1				Finger cut off, machine.....	67
	20 Mike Schranko.....	49	Buckner.....	1				Arm broken, falling prop.....	30
	20 Oscar Duncan.....	30	Harrisburg.....	1		2	2	Finger cut off, machine.....	43
	21 Joe Cantoni.....	27	Christopher.....	1				Arm broken, pit car.....	39
	26 Arthur Blue.....	32	Harrisburg.....	1		4	5	Finger broken, engine.....	75
	26 Robert Eubanks.....	18	Eldorado.....		1			Ribs broken, pit car.....	42
	27 Henry Picton.....	35	Christopher.....		1			Foot broken, machine.....	32

## NON-FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913—Continued

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
Nov. 27	Wm. Rennels.....	30	Benton.....	1	...	3	4	Foot broken, falling coal.....	42
29	Jas. Regan.....	36	W. Frankfort.....	1	...	3	4	Hand injured, pit car.....	60
29	Ed. Sisk.....	34	Harrisburg.....	1	...	...	1	Body injured, falling slate.....	63
30	Joe Hand.....	22	W. Frankfort.....	1	...	...	1	Arm broken, pit car.....	70
30	Andy Kandrik.....	32	Harrisburg.....	...	1	...	...	Body injured, falling coal.....	51
Dec. 2	Stanley Miller.....	28	Ledford.....	1	...	...	1	Body injured, falling slate.....	34
4	Lee Colvin.....	52	Christopher.....	1	...	...	...	Foot broken, machine.....	62
4	John Moore.....	23	Carriers Mills.....	1	...	...	1	Foot injured, pit car.....	40
4	Charlie Racines.....	18	Harrisburg.....	...	1	...	...	Fingers injured, pit car.....	30
4	Paul Klach.....	25	Sesser.....	...	1	...	...	Body burned, gas explosion.....	42
6	H. P. Rend.....	25	Rend.....	1	...	1	...	Arm broken, falling slate.....	60
7	Roy Hindman.....	27	W. Frankfort.....	1	...	1	2	Arm broken, falling coal.....	45
11	Antonio Yasuavis.....	45	Muddy.....	1	...	1	2	Back injured, falling slate.....	66
12	William Kiscell.....	24	Christopher.....	...	1	...	...	Foot injured, pit car.....	67
13	Jack Solome.....	30	W. Frankfort.....	...	1	...	...	Ankle injured, falling slate.....	35
14	Pete Meholaski.....	27	Zeigler.....	...	1	...	...	Foot injured, falling coal.....	30
15	McGinty Fitzsimmons.....	22	Eldorado.....	...	1	...	...	Leg injured, pit car.....	31
16	C. E. Chester.....	21	Carriers Mills.....	...	1	...	...	Arm broken, pit car.....	76
19	Tom Cain, Sr.....	50	Harrisburg.....	1	...	7	8	Ribs broken, pit car.....	99
20	Robert McPhall.....	20	Eldorado.....	...	1	...	...	Thumb broken, pit car.....	30
21	Patsy Pizzola.....	22	Christopher.....	...	1	...	...	Foot injured, pit car.....	30
21	Stanley Clen.....	21	do.....	...	1	...	...	Face burned, torch.....	52
24	Paul Parson.....	20	do.....	...	1	...	...	Hand injured, pit car.....	33
24	Dave Price.....	33	Eldorado.....	...	1	...	...	Arm injured, falling slate.....	40
26	Thos. Monkolisk.....	21	Sesser.....	...	1	...	...	Ankles injured, pit car.....	40
26	Wm. Rieder.....	20	Eldorado.....	...	1	...	...	Body injured, motor.....	30
27	Roy Holland.....	24	W. Frankfort.....	1	...	2	3	Hand injured, pit car.....	46
28	Grandville Gower.....	19	Christopher.....	...	1	...	...	Toes cut off, motor.....	120
28	Steve Zolick.....	30	Zeigler.....	...	1	...	...	Foot injured, pit car.....	30
30	A. J. Dunbar.....	21	Ledford.....	...	1	...	...	Body injured, kicked by mule.....	32
1913									
Jan. 2	Paul Linkhoff.....	33	Benton.....	1	...	2	3	Back broken, falling coal.....	*
2	Ferd Tindall.....	40	Royalton.....	1	...	4	5	Foot injured, falling coal.....	120
3	Walter Rickman.....	31	Harrisburg.....	...	1	...	...	Leg broken, falling slate.....	56
5	Geo. Como.....	30	Christopher.....	1	...	...	...	Face burned, gas explosion.....	40
5	Chas. Streckus.....	...	do.....	...	1	...	...	Body burned, gas explosion.....	44
6	Chas. Sharp.....	28	Ledford.....	...	1	...	...	Collar bone broken, pit car.....	49
6	Chas. Buckley.....	38	Benton.....	1	...	3	4	Collar bone broken, falling bar.....	30
9	Tom Seacock.....	24	Zeigler.....	...	1	...	...	Finger injured, pit car.....	60
9	Gus Harvenght.....	38	Christopher.....	1	...	4	5	Body burned, gas explosion.....	150
13	Verion Fox.....	28	W. Frankfort.....	...	1	...	...	Back broken, pit car.....	138
14	Frank Snyder.....	23	Christopher.....	...	1	...	...	Ankle injured, pit car.....	60
15	Uno. L. Thomas.....	46	Harrisburg.....	1	...	...	1	Finger injured, door.....	62
15	Ed. Gullege.....	32	do.....	1	...	2	3	Collar bone broken, pit car.....	40
16	Oliver Ewing.....	19	Eldorado.....	...	1	...	...	Leg broken, pit car.....	82
18	Tom G. Vizzali.....	29	Christopher.....	1	...	...	...	Leg burned, hot water.....	75
20	Roy Holsten.....	24	Grayson.....	1	...	2	3	Leg broken, pit car.....	40
24	James Harris.....	29	Harrisburg.....	...	1	...	...	Leg broken, falling coal.....	30
25	Matt Momber.....	18	Christopher.....	...	1	...	...	Leg injured, pit car.....	*
25	W. S. Johnson.....	37	Herrin.....	1	...	1	2	Collar bone broken, pit car.....	35
26	Ben Woods.....	21	Harrisburg.....	...	1	...	...	Wrist broken, pit car.....	58
27	West Klozeny.....	28	Zeigler.....	1	...	1	2	Body injured, powder explosion.....	60
27	Jobie Richards.....	31	Harrisburg.....	1	...	1	2	Leg broken, falling coal.....	56
27	S. C. Novack.....	27	Wasson.....	1	...	2	5	do.....	120
28	Fred Enz.....	18	Carriers Mills.....	...	1	...	...	Arm broken, fell down.....	35
28	A. M. Craig.....	35	do.....	1	...	1	2	Body injured, falling slate.....	109
28	John Pomeroy.....	37	Harrisburg.....	1	...	7	8	Toes injured, falling coal.....	54
30	John Rictor.....	40	Buckner.....	1	...	...	...	Head injured, falling wire.....	37
31	Austin Cullen.....	25	W. Frankfort.....	...	1	...	...	Body injured, pit car.....	32
Feb. 1	Matt Rednons.....	24	Cutler.....	...	1	...	...	do.....	31
5	Mike Colombo.....	24	Herrin.....	...	1	...	...	Eye injured, flying coal.....	40
5	D. B. Butler.....	28	Eldorado.....	...	1	...	...	Foot injured, pit car.....	30
7	Alex Machiniki.....	34	Herrin.....	1	...	...	...	Head injured, falling coal.....	30
11	Joseph Cooper.....	42	Benton.....	1	...	...	...	Body injured, powder explosion.....	32
12	Ottovis Bologni.....	28	W. Frankfort.....	...	1	...	...	Leg burned, hot water.....	44
12	Gasper Shafer.....	36	Zeigler.....	...	1	...	...	Leg injured, pit car.....	60
14	Wm. Robinson.....	26	Benton.....	1	...	2	3	Arm broken, fell down.....	60
17	Herbert Blanchard.....	21	Eldorado.....	1	...	1	2	Body injured, pit car.....	30
19	Joe Lawson.....	24	do.....	...	1	...	...	Body burned, gas explosion.....	45
19	Eugene Fitchwe.....	40	do.....	...	1	...	...	do.....	*
19	Ugo Norrietti.....	23	do.....	...	1	...	...	do.....	*

NON-FATAL CASUALTIES, ELEVENTH DISTRICT, JUNE 30, 1913—*Concluded*

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1913									
Feb. 19	Joe Lawsom	24	Eldorado	—	1	—	—	Body burned, gas explosion	30
19	Eugene Futchner	40	do.	—	1	—	—	do.	60
19	Ugo Monietti	23	do.	—	1	—	—	do.	90
20	Loren Webb	22	Royalton	1	—	1	2	Finger injured, pit car	60
21	Andy Doski	42	do.	—	1	—	—	Leg broken, falling coal	90
24	A. Cappellene	40	Sesser	1	—	—	1	Leg injured, falling coal	42
25	Tom Dickish	25	do.	—	1	—	—	Hand injured, pit car	60
26	Anton Grienk	31	Herrin	1	—	—	—	Body burned, gas explosion	33
27	Wm. Wonders	26	Eldorado	—	1	—	—	Head injured, pit car	49
Mar. 3	Joe Choills	34	W. Frankfort	—	1	—	—	Leg broken, falling coal	91
4	Jesse Spurgeon	37	do.	1	—	3	4	Finger injured, machine	40
4	Joe Sharkus	33	Dorrisville	—	1	—	—	Ankle injured, falling slate	88
4	Joe Jacoboski	27	Royalton	—	1	—	—	Arm broken, falling coal	90
5	Eloise Abrasaart	19	Sesser	—	1	—	—	Fingers injured, pit car	30
5	Earl Waltz	17	Ledford	—	1	—	—	Foot broken, falling slate	64
6	George Haliski	30	Buckner	—	1	—	—	Body injured, falling coal	30
6	Logan Stevan	19	Ledford	1	—	—	1	Wrist injured, falling slate	40
6	Enoch Goff	—	Wasson	—	1	—	—	Leg broken, pit car	*
8	Andy Seilus	25	Harrisburg	1	—	1	2	Body injured, falling coal	66
11	Earl McDermott	22	Ledford	1	—	—	1	Collar bone broken, pit car	35
12	Simpson Hall	37	Herrin	1	—	—	1	Body injured, gas explosion	40
12	Fred Hopkins	36	do.	1	—	—	—	do.	40
13	James Peters	27	Carriers Mills	1	—	4	5	Shoulder injured, pit car	32
13	George Kincais	23	Perk, Ind.	—	1	—	—	Ankle injured, pit car	68
15	Fred Thompson	46	W. Frankfort	1	—	1	2	Leg broken, motor	79
18	Gilbert Russell	21	Royalton	—	1	—	—	Leg cut off, motor	90
21	Bart Bazzina	35	Christopher	1	—	—	—	Body injured, gas explosion	*
24	Joe Bolton	31	Harrisburg	1	—	2	3	Body injured, falling slate	30
Apr. 3	Joe Carrabellia	30	Herrin	1	—	2	3	Arm cut off, falling coal	40
4	John Stisocki	21	Benton	—	1	—	—	Leg injured, falling coal	60
10	Joseph Marley	17	W. Frankfort	—	1	—	—	Fingers cut off, pit car	60
10	E. Ragland	26	Sesser	—	1	—	—	Fingers injured, pit car	*
10	Frank Franland	20	do.	—	1	—	—	Wrist injured, pit car	30
11	Jno. Prusasick	51	do.	1	—	2	3	Ribs broken, falling coal	30
14	Brewer Simpkins	—	Christopher	1	—	6	7	Finger cut off, drill	40
21	John Eke	29	Eldorado	1	—	3	4	Ankle injured, falling prop.	30
24	Tom Babet	26	Hanaford	—	1	—	—	Back injured, falling coal	*
28	Sam Henderson	29	Harrisburg	1	—	3	4	Toes broken, falling coal	43
29	Jessie Mercer	20	Christopher	—	1	—	—	Finger injured, falling rail	*
May 1	Victoi Allais	29	do.	1	—	—	1	Hand injured, clutch lever	30
1	John Bush	28	Harrisburg	1	—	1	2	Body injured, pit car	30
14	E. Dantels	28	Sesser	—	1	—	—	Foot injured, falling coal	*
14	Louis Fugate	30	Harrisburg	1	—	3	4	Leg broken, falling slate	40
14	William Crockett	48	Eldorado	1	—	5	6	Body burned, gas explosion	30
14	Sam Jenkins	24	do.	—	1	—	—	do.	30
20	John Sererins	31	Christopher	1	—	—	—	Body injured, pit car	30
20	Geo. Karoski	21	Harrisburg	1	—	—	1	Foot injured, pick	30
20	John George	28	Sesser	—	1	—	—	Leg broken, falling coal	30
27	William Floyd	19	do.	—	1	—	—	Ribs broken, pit car	*
27	Gus Schrier	46	do.	1	—	—	1	Arm broken, pit car	*
June 6	Amos Bixler	21	Ledford	—	1	—	—	Body injured, pit car	31
	Total			102	98	166	250		

\* Not returned to work.

Total number injured..... 200  
 Number not returned July 1, 1913..... 14

Total time lost by men returned, days..... 10,698  
 Average days lost..... 57.52

Number returned to work..... 186



## RECAPITULATION OF NON-FATAL ACCIDENTS, ELEVENTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Benton.....	9	Blacksmith.....	1	Cage.....	2	Bell & Zollar.....	12
Buckner.....	5	Cagers.....	2	Clutch lever.....	1	Benton.....	4
Carriers Mills.....	11	Car repairer.....	1	Door.....	1	Big Creek.....	4
Christopher.....	23	Coupler.....	1	Drill.....	1	Carroll & Franklin Co.....	2
Cutler.....	1	Drivers.....	42	Engine.....	1	Christopher.....	1
Derk, Ind.....	1	Electricians.....	2	Falling bar.....	1	Dering.....	9
Dorrisville.....	3	Fireman.....	1	Falling coal.....	33	Eldorado.....	6
Eldorado.....	24	Laborers.....	13	Falling rail.....	2	Franklin C. & C.....	11
Grayson.....	2	Loaders.....	19	Falling rock.....	2	Hart-Williams.....	4
Hanaford.....	2	Machine helpers.....	8	Falling slate.....	21	O'Gara.....	62
Harrisburg.....	33	Machine runners.....	21	Falling timber.....	2	Ohio Valley.....	7
Herrin.....	10	Mechanic.....	1	Falling wire.....	1	Rend, W. P.....	3
Ledford.....	9	Mine examiner.....	1	Falling wrench.....	1	Sesser.....	15
Muddy.....	4	Miners.....	51	Fell down.....	3	Southern Illinois.....	16
Mulkeytown.....	1	Motormen.....	2	Flying coal.....	1	United C. M.....	13
Rend.....	3	Shot firers.....	3	Gas explosion.....	18	Wasson.....	22
Royalton.....	11	Spraggers.....	4	Hot water.....	2	Zeigler District.....	2
Sesser.....	16	Timbermen.....	6	Machine.....	12		7
Wasson.....	2	Trackmen.....	4	Motor.....	5		
West Frankfort.....	18	Trappers.....	4	Mule, kicked by.....	2		
Zeigler.....	12	Trip riders.....	13	Pick, struck by.....	1		
				Pit cars.....	78		
				Powder explosion.....	4		
				Premature blast.....	3		
				Railroad cars.....	1		
				Torch.....	1		
Total.....	200		200		200		200

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURIES, CONJUGAL RELATIONS AND TIME LOST, ELEVENTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percentage of injuries
						Total	Average	
Ankles injured.....	9	2	7	4	6	421	46.8	4.50
Arms broken.....	14	7	7	3	9	705	54.2	7.00
Arms cut off.....	2	1	1	2	3	180	90.0	1.00
Arms injured.....	1	1	1	1	1	40	40.0	.50
Backs broken.....	2	1	1	2	3	138	138.0	1.00
Backs injured.....	6	2	4	4	6	334	66.8	3.00
Bodies burned.....	17	7	10	15	19	1,104	73.6	8.50
Bodies injured.....	27	18	9	16	27	1,204	48.2	13.50
Collar bone broken.....	8	5	3	6	10	390	48.8	4.00
Eye destroyed.....	1	1	1	1	1	30	30.0	.50
Eye injured.....	1	1	1	1	1	40	40.0	.50
Feet broken.....	5	2	3	3	4	248	49.6	2.50
Feet injured.....	12	4	8	11	15	483	43.9	6.00
Fingers broken.....	4	3	1	7	10	186	46.5	2.00
Fingers cut off.....	4	3	1	8	9	210	52.0	2.00
Fingers injured.....	12	4	8	4	8	558	55.8	6.00
Hands injured.....	8	4	4	5	8	349	43.6	4.00
Heads injured.....	9	6	3	3	3	340	42.5	4.50
Jaw broken.....	1	1	1	1	1	30	30.0	.50
Legs broken.....	23	12	11	21	36	2,009	93.3	11.50
Leg cut off.....	1	1	1	1	1	90	90.0	.50
Legs injured.....	17	10	7	23	30	875	54.7	8.50
Ribs broken.....	5	3	2	13	16	201	50.3	2.50
Shoulders injured.....	2	1	1	4	5	68	34.0	1.00
Toes broken.....	2	2	1	4	6	80	40.0	1.00
Toes cut off.....	1	1	1	1	1	120	120.0	.50
Toes injured.....	2	2	1	10	12	84	42.0	1.00
Wrist broken.....	1	1	1	1	1	58	58.0	.50
Wrists injured.....	3	2	1	1	4	123	41.0	1.50
Total.....	200	102	98	166	250	10,698	57.52	100.00

## FRANKLIN COUNTY, ELEVENTH DISTRICT, 1913

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accident		
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other purposes	All others employed	Total	By hand		By machine	Killed
SHIPPING MINES																
1	Ohio Valley M. Co., No. 8	W. Frankfort	1,019	142,454	473,058	616,531	598,821	17,710	*118,125	231	510	510	.....	616,531	2	7
2	Zeigler Dist. Col. Co., N. M.	Christopher	19,490	159,319	424,378	603,187	582,587	20,600	4,951	256	378	424	78,631	524,556	2	7
3	Bell & Zoller M. Co., No. 1	Zeigler	11,379	67,788	489,677	568,844	540,785	28,059	*102,101	247	585	585	.....	568,844	3	12
4	United C. M. Co., No. 1	Christopher	9,889	125,691	400,092	535,672	522,619	13,053	*97,505	234	433	450	42,386	493,286	2	13
5	Sesser Coal Co.	Sesser	44,113	87,575	339,720	471,408	468,168	3,240	*72,100	225	200	175	2,164	469,244	1	16
6	Benton Coal Co.,	Benton	21,679	105,300	279,296	406,275	387,802	18,473	{*48,575 1,462}	207	60	394	71,802	334,473	1	4
7	Hart-Williams C. Co., No. 1	do	36,195	70,100	284,824	391,119	373,483	17,636	{1,340 *57,764}	173	28	435	57,930	333,189	.....	4
8	Franklin C. & C. Co.	Royalton	32,507	78,100	221,200	331,807	319,707	12,100	4,925	190	20	487	6,500	325,307	2	11
9	United C. M. Co., No. 2	Buckner	1,129	77,571	231,933	310,633	300,109	10,524	*69,850	217	.....	343	.....	310,633	2	9
10	W. P. Rend Coal Co., No. 1	Rend	125,011	43,405	105,809	274,225	262,559	11,666	{2,290 *20,575}	230	297	297	.....	274,225	1	8
11	So. Ill. C. & C. Co., P. R.	Herrin	10,237	54,070	157,141	221,448	213,461	7,987	2,569	267	213	213	.....	221,448	3	13
12	Dering C. Co., No. 11	W. Frankfort	32,143	47,927	125,637	205,707	196,201	9,506	*43,350	160	273	273	.....	205,707	1	5
13	Carroll & Franklin Counties C. Co., No. 1	Hanaford	931	26,593	84,378	111,902	107,177	4,725	*21,875	189	136	136	.....	111,902	.....	2
14	Dering Coal Co., No. 18	W. Frankfort	9,926	31,197	43,660	84,783	76,713	8,070	*19,525	167	122	122	.....	84,783	3	4
15	West Frankfort Coal Co., No. 1	do	600	13,689	54,756	69,045	66,525	2,520	*16,650	168	79	79	.....	69,045	1	.....
16	Christopher C. M. Co., No. 1	Christopher	16,310	5,430	8,200	29,940	26,731	3,209	398	177	83	83	.....	29,940	.....	1
Total—16 mines			372,558	1,136,209	3,723,759	5,232,526	5,043,448	189,078	{*600,295 17,935}	209	371	8,943	259,413	4,973,113	25	11

Mines reported for 1912, 16.  
 New Mines, 1.  
 Abandoned mines, 1.  
 Mines in 1913, 16.  
 \* Pounds permissible explosives.



GALLATIN COUNTY, ELEVENTH DISTRICT, 1913

SHIPPING MINES												
1 Hickory Hill Coal Co.....	840	25, 157	12, 080	38, 677	38, 616	61	1, 139	212	37	10	47	38, 677
2 Gallatin C. & C. Co, No. 1.....	5, 323	5, 082	10, 955	21, 960	17, 133	4, 827	1, 160	103	40	13	53	21, 960
3 Crescent Coal Co., E. S.....	1, 000	4, 735	2, 367	8, 102	7, 052	1, 050	1, 150	83	.....	32	32	8, 102
Total.....	7, 163	35, 574	26, 002	68, 739	62, 801	5, 938	2, 449	133	77	55	132	60, 637
LOCAL MINES												
1 W. R. Chinn.....	.....	3, 200	500	3, 700	.....	.....	128	160	5	3	8	3, 700
2 Dempsey & Wather Bros.....	.....	2, 525	450	2, 985	.....	.....	118	175	4	1	5	2, 985
3 R. J. Mitchell.....	.....	760	400	1, 160	.....	.....	60	142	2	.....	2	1, 160
4 Wm. Strong.....	.....	600	280	880	.....	.....	120	190	3	2	5	880
5 W. H. McLain.....	.....	570	65	635	.....	.....	23	40	2	.....	2	635
Total.....	.....	7, 065	1, 695	9, 360	.....	.....	449	141	16	6	22	9, 360
Total—8 mines.....	7, 163	43, 239	27, 697	78, 099	62, 801	15, 298	2, 898	138	93	61	154	69, 997

Mines reported for 1912, 10.  
New mines, 1.  
Abandoned mines, 3.  
Mines in 1913, 8.

SALINE COUNTY, ELEVENTH DISTRICT, 1913

SHIPPING MINES													
1	Saline Co. Coal Co., No. 2	58, 711	219, 793	275, 560	552, 064	544, 171	7, 893	5, 354	276	398	398	552, 064	10
2	O'Garra Coal Co., No. 9	321, 039	183, 518	185, 518	504, 557	496, 342	8, 215	5, 304	222	539	539	504, 557	7
3	Saline Co. Coal Co., No. 3	967	91, 204	375, 427	467, 598	457, 062	10, 536	3, 999	284	349	349	467, 598	5
4	Wasson Coal Co., No. 1	32, 346	150, 885	174, 718	353, 349	353, 349	4, 600	3, 260	255	384	384	357, 949	2
5	O'Garra Coal Co., No. 3	45, 709	206, 014	92, 098	343, 821	307, 441	36, 380	3, 138	206	457	457	342, 701	9
6	O'Garra Coal Co., No. 14	111, 976	71, 762	110, 508	294, 246	280, 992	13, 254	2, 530	225	340	340	294, 246	3
7	O'Garra Coal Co., No. 10	9, 838	169, 474	98, 491	277, 803	269, 622	8, 181	2, 865	204	433	433	277, 803	6
8	Eldorado C. M. Co., No. 1	89, 155	130, 785	128, 671	272, 512	266, 761	5, 761	6, 390	253	105	105	272, 512	4
9	O'Garra Coal Co., No. 4	39, 155	130, 785	128, 671	272, 512	266, 761	5, 761	6, 390	253	105	105	272, 512	4
10	O'Garra Coal Co., No. 15	17, 054	159, 918	107, 514	267, 486	262, 016	5, 470	3, 427	200	354	354	267, 486	6
11	Carriers Mills	5, 401	152, 936	107, 327	265, 664	260, 289	5, 470	3, 427	200	354	354	267, 486	6
12	O'Garra Coal Co., No. 1	143, 331	143, 331	143, 331	143, 331	143, 331	5, 165	5, 600	150	190	190	143, 331	9
13	O'Garra Coal Co., No. 12	5, 079	81, 933	37, 644	124, 656	119, 491	5, 375	1, 559	232	190	190	124, 656	1
14	O'Garra Coal Co., No. 8	7, 469	60, 757	53, 800	116, 082	111, 499	4, 833	1, 103	172	234	234	116, 082	5
15	O'Garra Coal Co., No. 7	27, 584	62, 493	31, 745	121, 794	117, 220	4, 574	1, 302	132	262	262	121, 794	5
16	Carriers Mills	43, 389	40, 565	22, 800	106, 694	100, 382	6, 302	991	123	222	222	106, 694	3
17	O'Garra Coal Co., No. 11	2, 000	6, 000	6, 000	14, 000	6, 000	8, 000	700	150	15	15	14, 000	3
18	Galatia & Saline Coal Co., No. 1	633, 465	2, 031, 856	1, 832, 892	4, 498, 212	4, 348, 774	149, 439	52, 447	207	348	5, 060	4, 221, 682	16
Total.....													

SALINE COUNTY, ELEVENTH DISTRICT, 1913—*Concluded*

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Keys of powder used for blasting coal	Days of active operation	Employees		Tons mined		Acci- dents	
			Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment			Other pur- poses	Average num- ber of miners	All others em- ployed	Total		By hand
LOCAL MINES															
1	W. R. Henshaw	Carriers Mills.	4,700	7,000		10,000		10,000	300	6		10,000			
2	Job Ingram	Harrisburg	625	1,040		4,700		4,700	150	4	2	4,700			
3	Tanner, Barkus & Co.	Carriers Mills.	444	500		2,645		2,645	132	5	3	2,645			
4	Syers Bros.	Equality		781		1,194		1,194	35	2		1,194			
5	Macke Coal Co.	Ledford				944		944	15	93			944		
6	S. J. Moore	Equality		640		840		840	30	1	1	840			
7	R. L. Clements	Mitchellville	100	500		700		700	50	75	2	700			
8	Yates & Land	Equality	240			240		240	12	60	2	240			
9	Elders & Bixler	Carriers Mills.	200			210		210	8	40	2	210			
10	Mag Hart	Equality	200			200		200	2	2	2	200			
11	James Edwards	do.		50		50		50	2	12	1	50			
	Total		6,269	10,751		21,723		21,723	746	117	30	20,779	944		
	Total—28 mines		639,734	2,042,607	44,532	4,519,936	4,348,774	171,162	53,193	378	5,069	297,310	4,222,626	16	89

Mines reported for 1912, 30.  
New mines, 3.  
Abandoned mines, 5.  
Mines in 1913, 28.

## WHITE COUNTY, ELEVENTH DISTRICT, 1913

<b>SHIPPING MINES</b>															
1	Norris City Coal Co.	Norris City	6,053	6,241	806	19,246	9,358	9,888	155	126	35				
											24		19,246		
											59				

Mines reported for 1912, 1.  
Mines in 1913, 1.

## RECAPITULATION BY COUNTIES, ELEVENTH DISTRICT, 1913

	Franklin	Gallatin	Saline	White	Total
<b>SHIPPING MINES</b>					
Number of mines.....	16	3	17	1	37
Production of different grades in tons—					
Mine run.....	372, 558	7, 163	633, 465	6, 053	1, 019, 239
Lump.....	1, 136, 209	35, 574	2, 031, 856	6, 241	3, 209, 880
Egg.....	977, 815	2, 187	385, 862	.....	1, 365, 864
Nut.....	837, 256	1, 164	146, 127	2, 436	986, 983
Pea.....	1, 615, 785	21, 943	1, 256, 371	3, 710	2, 897, 809
Slack.....	292, 903	708	44, 532	806	338, 949
Total.....	5, 232, 526	68, 739	4, 498, 213	19, 246	9, 818, 724
Disposition of output, in tons—					
Loaded on cars for shipment.....	5, 043, 448	62, 801	4, 348, 774	9, 358	9, 464, 381
Other purposes.....	189, 078	5, 938	149, 439	9, 888	354, 343
Kegs of powder used blasting coal.....	17, 935	2, 449	52, 447	155	72, 986
Days of active operation.....	209	133	207	126	199
Employees under ground—					
Miners.....	371	77	348	35	831
Others.....	4, 384	39	4, 592	15	9, 030
Boys.....	77	2	60	.....	139
Employees above ground.....	482	14	408	9	913
Total.....	5, 314	132	5, 408	59	10, 913
Tons mined by hand.....	259, 413	60, 637	276, 531	.....	596, 581
Tons mined by machine.....	4, 973, 113	8, 102	4, 221, 682	19, 246	9, 222, 143
Number of machines in use.....	263	3	157	2	425
Number of motors in use.....	81	.....	34	.....	115
Number killed.....	25	.....	16	.....	41
Number injured.....	111	.....	89	.....	200
Blasting coal—					
From solid—tons.....	.....	60, 637	157, 331	.....	217, 968
Undercut—tons.....	3, 831, 945	8, 102	4, 068, 370	19, 246	7, 927, 663
Both methods—tons.....	1, 400, 581	.....	272, 512	.....	1, 673, 093
<b>LOCAL MINES</b>					
Number of mines.....	.....	5	11	.....	16
Production of different grades, in tons—					
Mine run.....	.....	.....	6, 269	.....	6, 269
Lump.....	.....	7, 665	10, 751	.....	18, 416
Other grades.....	.....	1, 695	4, 703	.....	6, 398
Total.....	.....	9, 360	21, 723	.....	31, 083
Kegs of powder used blasting coal.....	.....	449	746	.....	1, 195
Days of active operation.....	.....	141	117	.....	125
Number of employees.....	.....	22	39	.....	61
Tons mined by hand.....	.....	9, 360	20, 779	.....	30, 139
Tons mined by machine.....	.....	.....	944	.....	944
Number killed.....	.....	.....	.....	.....	.....
Number injured.....	.....	.....	.....	.....	.....

NOTE—In Franklin County 600,295 pounds of permissible explosives were used in blasting coal.  
 Whole number of mines reported for 1912, 57.  
 Number of new mines opened during year, 5.  
 Number of mines abandoned during the year, 9.  
 Whole number of mines reported for 1913, 53.

## TWELFTH INSPECTION DISTRICT—1913

COUNTIES—JOHNSON, WILLIAMSON. J. W. FAIRBAIRN, *Inspector*, MARION

*Hon. Martin Bolt, Chief Clerk, State Mining Board, Springfield.*

SIR: Complying with section 5 of the general mining law of Illinois, I submit herewith the annual report of the coal producing counties of Johnson and Williamson:

### SUMMARY OF THE ITEMS SHOWN IN THE REPORT

Number of counties producing coal.....	2
Number of shipping mines.....	35
Number of local mines.....	13
Number of new or re-opened mines.....	6
Number of closed or abandoned mines.....	7
Number of miners.....	4,334
Others underground, men.....	3,745
Boys underground.....	214
Boys above ground.....	3
Others above ground.....	911
Total number of employees.....	9,207
Total tons of coal produced.....	7,710,194
Days of active operation, all mines.....	162
Kegs of powder used for blasting coal.....	201,052
Tons of coal shipped.....	7,326,413
Tons supplied to locomotives.....	120
Tons sold to local trade.....	69,722
Tons consumed and wasted at mines.....	313,939
Number of fatal accidents.....	23
Number of non-fatal accidents.....	66
Number of employees to each fatal accident.....	400
Number of employees to each non-fatal accident.....	140
Tons of coal produced to each fatal accident.....	335,226
Tons of coal produced to each non-fatal accident.....	116,821
Ratio of fatal accidents per 1,000 employees.....	2.5

The following table gives the total tonnage, by counties, for the years 1912 and 1913, with increase or decrease:

Counties	Total output—tons		Increase	Decrease
	1912	1913		
Johnson.....	3,871	1,084		2,787
Williamson.....	7,086,554	7,709,110	622,556	
Total.....	7,090,425	7,710,194	622,556	2,787
Net.....			619,769	

## NEW MINES

The consolidated Coal Company of St. Louis has re-opened the Lake Creek Mine at Johnston City, which was formerly owned by the Big Muddy Consolidated Coal Company.

The following mines are classed as new mines this year because they were not reported in operation last year:

Brinckley & Miles, Marion; J. C. McNeil, T. E. Lewis, Carterville; W. E. Connett, Crab Orchard, and H. P. Crain, Crainville.

## ABANDONED MINES

Tyler & Heaton, New Burnsidess; Watson Coal Co. No. 1, Herrin; Robert Dick Coal Co., Cambria; Charles Swan, L. Brady, and M. Shaw, Crab Orchard, are not reported this year. J. S. McNeil's Mine was changed to a shipping mine and is included in the abandoned locals.

## CHANGE OF NAME

The mines reported in 1912 as John Hampton, Reese & Taylor, John A. Young, Carlisle Coal Co., Motsinger & Carter, and Black Diamond Coal Co., are reported in 1913 as James Horn, Henry Reese, Charlie Young, J. W. Stalcup, Carter & Simms, and Rankin & Scott, respectively.

## CYCLONE

A cyclone on the evening of March 24, 1913, demolished the brick boiler-house of the Chicago and Big Muddy Coal and Coke Company, near Marion. The smoke stacks were blown down and considerable damage done to adjacent mine buildings and dwellings. The same storm blew down the stacks at the Illinois Hocking Washed Coal Company's Mine and unroofed the washer building.

## MINE FIRES

The repair shops at the "A" Mine of the Chicago and Carterville Coal Co., Herrin, burned down in April. Efficient fire-fighting facilities prevented a very serious spreading of the flames.

About 6:00 P.M. May 22, 1913, the hoisting engineer at the mine of the Illinois Hocking Washed Coal Company discovered smoke coming out of the main shaft, which was the upcast at that time. He notified the mine superintendent by telephone that there was a fire in the mine. Upon the arrival of the superintendent and mine manager they discovered that the fire was near the bottom of the main shaft. Being unable to descend the hoisting shaft, on account of the heat and smoke, the superintendent and mine manager went down the escapement shaft. Believing it advisable to save the hoisting shaft and tippie, which were in immediate danger, they opened a door in the passageway between the two shafts and then came on top and reversed the fan, thus short-circuiting the air and making the hoisting shaft the downcast. Learning that there were two men in the mine, volunteers went down the main shaft on the cage. At a distance of about 15 feet from the bottom they were obliged to stop on account of the intense heat. From this position they began fighting the fire, which was beginning to ignite the timbers at the bottom of the shaft. A good supply of water was furnished from the surface through a line of hose. While they were thus engaged the mine manager of the Johnston City Coal Company arrived with breathing apparatus belonging to that company. Using this apparatus, a few feet nearer approach to the bottom of the shaft, than was possible in the previous effort, was made. The arrival of Superintendent Duncan of the Mine Rescue Station, at Benton, with his assistants and equipment, supplied a much needed reinforcement to the limited number of qualified men and scanty equipment.

The work underground was interrupted, before midnight, by the burning of the fanhouse and timbering in the air shaft. After this fire had ceased to be dangerous, work underground was resumed and two lines of hose being now available, better progress was possible.

Early in the morning of the 23d, being able to get up the main east entry for a short distance, a car of dull machine bitts was discovered, showing that the two night men, whose duties were to distribute powder and gather up the dull bits, had finished their work on the east side and in all probability would be found on the west side.

About 1:30 P.M., the main west was made available for exploration and a party immediately entered. At 1:50 P.M., the two night men, John Duncan and Ed. Duncan, brothers, were found in the sixth north west, about 60 feet from the main west, and 2,000 feet from the main shaft. Acting president of the State Mining Board, Evan D. John, and Superintendent Duncan of the Mine Rescue Station at Benton, were the first to reach the imprisoned men, and found them lying side by side near the center of the entry. The older of the two brothers, John, was apparently dead, but the younger man was still alive. A pulmotor was brought from the surface and artificial respiration started. The younger man quickly revived under the action of the pulmotor, and he, with the body of his brother, was brought to the surface. An effort was made to resuscitate the older man, by means of the pulmotor, but it proved unavailing.

Within the next two days, all of the fire was extinguished, except in two old rooms near the air shaft. These rooms were partly caved, and although a stream of water was kept constantly playing on these falls for several days, the fire continued to smolder.

The fire, which traversed about 800 feet of passageways, is thought to have originated in a small shanty, near the shaft bottom, wherein a few men were accustomed to change their clothes.

#### IMPROVEMENTS

The Big Muddy Coal and Iron Company has installed a new boiler plant at No. 7 Mine. The building is 42 feet by 72 feet, combination steel and tile construction, having at present three 350 H.P. vertical water tube boilers, with chain grate stokers.

The Chicago & Cartersville Coal Co., the Pond Creek Coal Co., and the Chicago & Big Muddy Coal and Coke Co., have increased their boiler capacity by the installation of new units.

The Peabody Coal Company has commenced the erection of a re-screening plant at No. 3 Mine.

The West Virginia Coal Company has installed a new fan.

The Madison Coal Corporation has completed the erection of the new ventilating plant mentioned in the report of last year. A marked increase in the use of steel and concrete around the shaft bottom is noticeable at a number of mines in the district.

#### FATAL ACCIDENTS

July 5, 1912, William Germann, loader, aged 30 years, married, was killed by a fall of slate, in the mine of the West Virginia Coal Co., Marion. He leaves a widow and one child.

July 16, 1912, John Bradley, trapper, aged 18 years, single, employed in Peabody Coal Company's Mine No. 3, Marion, was killed by being caught between the rib and the trap door, which had been struck by a passing trip of cars.

July 17, 1912, Pete Ruatti, miner, aged 37 years, married, was killed by a fall of slate at the Big Muddy Fuel Company's Mine, Johnston City. He leaves a widow and one child.

August 11, 1912, Jack Morris, machine helper, aged 38 years, married, died of injuries received two days before, from a fall of slate in the Johnston City Coal Company's Mine. He leaves a widow and three children.



August 23, 1912, Mike Wansky, timberman, aged 50 years, single, died of injuries received July 16, 1912, while being hoisted out of the escapement shaft of the Williamson County Coal Company's Mine, Johnston City.

September 27, 1912, Andrew Frazier, trapper, aged 17 years, single, died of injuries received the previous day, when he fell in front of a moving car in the Chicago & Big Muddy Coal and Coke Company's Mine, Marion.

October 1, 1912, Joe Povaloski, driver, aged 21 years, single, was killed by being knocked off the cage, while being hoisted out of the Western Coal and Mining Company's Mine, Bush.

October 19, 1912, Will Duncan, driver, aged 38 years, single, died of injuries received October 8, when he fell under a loaded car at No. 2 Mine of the W. P. Rend Coal and Coke Co., Herrin. He leaves a mother who was dependent upon him.

October 26, 1912, Charles Stedka, miner, aged 38 years, married, was killed by a shot, which he had just lighted, in the Oak Ridge Mine of the Southern Illinois Coal and Coke Co., Johnston City. He leaves a widow and two children.

November 20, 1913, Mike Genovich, timberman, aged 45 years, married, employed at "B" Mine of the Chicago & Carterville Coal Co., died from injuries received November 20, 1912, by a fall of slate. He leaves a widow and two children.

December 27, 1912, Sam Mitchell, miner, aged 26 years, single, was killed by falling coal and slate at the Williamson County Coal Company's Mine, Johnston City.

December 30, 1912, I. M. Beattie, miner, aged 42 years, married, employed by the Western Coal & Mining Company, Bush, died from injuries received the previous day by being crushed between the rib and a trip of loads while he was attempting to cross from one side to the other. He leaves a widow and three children.

February 3, 1913, Richard Russell, miner, aged 28 years, married, was killed by a fall of slate in No. 3 Mine of the Peabody Coal Company, Marion. He leaves a widow.

February 8, 1913, John W. Ward, miner, aged 53 years, married, employed by the Carterville & Big Muddy Coal Company, Cambria, was killed by a fall of slate. He leaves a widow and five children.

February 20, 1913, Steve Watsick, miner, aged 53 years, employed by the Taylor Coal Company, at No. 2 Mine, Herrin, was killed by being struck by a loaded car, which had become detached from a motor trip. He leaves a widow and six children.

March 3, 1913, Luke Bateman, track layer, aged 36 years, married, employed by the Carterville & Big Muddy Coal Company, Cambria, was killed by being struck by a loaded car, which had become detached from a motor trip. He leaves a widow and three children.

March 15, 1913, James Morgan, shot-firer, aged 29 years, married, employed by the Carterville & Big Muddy Coal Company, Cambria, was killed by a shot blowing through pillar between two entries. He leaves a widow and two children.

March 20, 1913, George W. Briscoe, miner, aged 25 years, married, employed by the Big Muddy Fuel Company, Johnston City, was killed by a fall of slate in his working place. He leaves a widow.

April 2, 1913, Charles Jaque, miner, aged 44 years, married, employed by the Williamson County Coal Company, Johnston City, was killed by a fall of slate at the face of his room. He leaves a widow and four children.

April 9, 1913, Tyson Hodgson, laborer, aged 25 years, single, employed by the Madison Coal Corporation at No. 8 Mine, Dewmaine, was killed by getting caught on a revolving wheel.

May 23, 1913, John Duncan, laborer, aged 40 years, single, employed by the Illinois Hocking Washed Coal Company, Marion, died from breathing noxious gases while imprisoned in the mine by a fire near the bottom of the shaft.

June 4, 1913, Ralph Newton, driver, aged 19 years, married, employed at the "A" Mine of the Chicago & Carterville Coal Company, Herrin, was



killed by being crushed between loaded car and the rib when another trip ran into his. He leaves a widow.

June 28, 1913, Thomas M. Hubbard, cager, aged 47 years, married, employed at the McClintock Mine, Johnston City, died from injuries received two days previous when he was caught between a loaded car and a prop. He leaves a widow and four children.

Respectfully submitted,

J. W. FAIRBAIRN,

*State Inspector of Mines, Twelfth District, Marion, Ill.*

### FATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1912

Date	Name	Age	Occupation	Residence	Married	Single	Widow	Children	Dependents	Cause of death
1912										
July 5	Wm. Germann	30	Loader	Marion	1	1	1	2		Falling slate
16	John Bradley	18	Trapper	do	1	1				Pit car
17	Pete Ruatti	37	Miner	Johnston City	1	1	1	2		Falling slate
Aug. 11	Jack Morris	38	Machine helper	do	1	1	3	4		do
23	Mike Wansky	50	Timberman	do		1				Cage
Sept. 27	Andrew Frazier	17	Trapper	Marion	1	1				Pit car
Oct. 1	Joe Povaloski	21	Driver	Bush		1				Fell off cage
19	Will Duncan	38	do	Herrin	1	1				Pit car
26	Charles Stedka	38	Miner	Johnston City	1	1	2	3		Shot explosion
Nov. 20	Mike Genovich	45	Timberman	Herrin	1	1	2	3		Falling slate
Dec. 27	Sam Mitchell	26	Miner	Johnston City	1	1				do
30	I. M. Beattie	42	do	Hurst	1	1	3	4		Pit car
1913										
Feb. 3	Richard Russell	28	do	Marion	1	1	1	1		Falling slate
8	John W. Ward	53	do	Cambria	1	1	5	2		do
20	Steve Watsick	53	do	Herrin	1	1	6	4		Pit car
Mar. 3	Luke Bateman	36	Trackman	Cambria	1	1	3	4		do
15	James Morgan	29	Shot firer	do	1	1	2	3		Blown out charge
20	Geo. W. Briscoe	25	Miner	Johnston City	1	1	1	1		Falling slate
Apr. 2	Charles Jaque	44	do	do	1	1	4	5		do
9	Tyson Hodgson	25	Laborer	Cartersville	1	1				Wheel
May 23	John Duncan	40	do	Marion	1	1				Asphyxiation
June 4	Ralph Newton	19	Driver	Herrin	1	1	1	1		Pit car
28	Thos. M. Hubbard	47	Cager	Johnston City	1	1	4	3		Pit car
	Total				15	8	15	36	43	

### RECAPITULATION OF FATAL CASUALTIES, TWELFTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Bush	1	Cager	1	Asphyxiation	1	Big Muddy C. & I.	2
Cambria	3	Drivers	3	Blown out charge	1	Cartersville & Big Muddy	3
Cartersville	1	Laborers	2	Cage	1	Chicago & Big Muddy	1
Herrin	4	Loader	1	Falling slate	9	Chicago & Cartersville	2
Hurst	1	Machine helper	1	Fell off cage	1	Illinois Hocking	1
Johnston City	8	Miners	9	Pit cars	8	Johnston City	1
Marion	5	Shot firer	1	Shot explosion	1	Madison Corp.	1
		Timbermen	2	Wheel	1	Peabody	2
		Trackman	1			Rend, W. P.	1
		Trappers	2			Standard Col.	1
						Southern Illinois	1
						Taylor	1
						Western	2
						West Virginia	1
						Williamson Co.	3
Total	23		23		23		23

## NON-FATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1913

Date	Name	Age	Residence	Married	Single	Children	Dependents	Character of injury and cause of accident	Time lost—days
1912									
July	6 Wm. McGluckie	45	Marion	1		2	3	Eye injured, falling iron	46
	11 Ollie Gosnell	40	Hurst	1			1	Leg broken, falling coal	*
	16 Frank Tutino	53	Marion	1		1	2	Shoulder injured, pit car	53
	18 Steve Kowalski	22	Bush	1	1			Leg broken, falling coal	95
	24 B. L. Struck	33	Johnston City	1		2	3	Leg broken, falling slate	90
	29 Frank Ingleby	51	Herrin	1	1			Foot broken, falling timber	32
Aug.	2 J. W. Ames	65	Marion	1		2	3	Body injured, falling coal	38
	2 Harry Miller	23	Clifford	1		1		Finger broken, falling pipe	42
	5 Chas. Marshall	26	Marion	1		2	3	Arm broken, coal falling down shaft	35
	13 Thos. Tolliver	51	Dewmaine	1			1	Arms injured, falling slate	30
	20 W. S. Coleman	64	do	1		2	3	Toes cut off, pit car	90
	23 Herman Rock	26	Johnston City	1				Foot broken, pit car	80
	24 Roy Cochran	20	Clifford	1	1			do	60
	27 Robert Brush	40	Marion	1		5	7	Ankle broken, railroad car	61
Sept.	3 Wm. Knight	38	do	1				Ankle injured, fell down	61
	5 Urgh Burja	19	Herrin	1				Collar bone broken, mule	90
	13 Chas. Hill	40	Marion	1		1	2	Collar bone broken, falling slate	35
	13 H. Thornton	36	do	1		3	4	do	39
	17 Jas. S. Goldsworthy	49	Clifford	1			2	Leg broken, pit cars	30
Oct.	2 Elmer Williams	22	Whiteash	1			1	Leg broken, pit cars	90
	4 Antonio Butterio	35	Clifford	1		1	1	Head injured, falling coal	51
	7 Wm. Duncan	37	Rendville	1				Collar bone broken, pit car	30
	18 Chas. Hendrickson	26	Johnston City	1		2	3	Finger cut off, railroad car	30
	21 Jas. Bridgett	26	Cambria	1	1			Body injured, pit car	90
	24 Frank Ward	50	Marion	1		4	5	Body injured, falling coal	42
	24 John Armstrong	30	Herrin	1		5	6	Ribs broken, falling coal	32
	27 Bert Grace	30	Marion	1		2	4	Ankle injured, struck rail	35
Nov.	4 Arch Smith	22	Herrin	1				Collar bone broken, mule	30
	11 Robt. Hewlett	23	do	1		2	3	Body burned, gas explosion	42
	18 Walter Newell	26	do	1		2	3	Hand injured, railroad car	58
	19 John Romeo	35	do	1				Body burned, gas explosion	37
	21 Joseph Marlow	23	do	1				Hand injured, falling coal	45
	22 John Huntley	30	Johnston City	1				Foot injured, pit car	30
	22 Judge Darby	26	Clifford	1		3	4	Finger broken, falling timber	34
	22 Jno. Weir	56	Herrin	1		5	4	Eye injured, flying coal	*
	30 John V. Thompson	50	do	1		3	2	Body injured, shot explosion	180
Dec.	4 Joe Jones	17	Marion	1				Fingers injured, tailchain	34
	11 Peter Clair	50	Johnston City	1		3	3	Hand injured, pit car	40
	13 Frank Gieretti	38	Herrin	1			1	Leg broken, falling slate	90
	17 P. J. Haverty	45	Bush	1		1	1	Body injured, falling slate	80
	19 Earl Linton	19	Herrin	1				Leg broken, pit car	97
	20 John Ellison	31	Cambria	1			1	Body burned, shot explosion	90
	23 Wm. Lorman	23	Herrin	1				Arm broken, mule	70
1913									
Jan.	7 Jas. White	26	Dewmaine	1				Shoulder broken, pit car	30
	18 McKinley Beasley	21	Carterville	1				Ankle broken, pit car	31
	18 Roy Reno	16	Bush	1				Foot broken, pit car	*
	21 Jos. D. Tayborne	33	Clifford	1		6	7	Ribs broken, mule	36
	30 John Campbell	37	Dewmaine	1				Leg injured, pit car	60
Feb.	10 Jake Prozinzo	34	Whiteash	1				Leg injured, falling slate	41
	14 R. P. Phillips	39	Dewmaine	1			1	Leg broken, falling slate	120
	21 Fleety Beltz	20	Fordville	1				Leg injured, pit cars	38
	25 Harvil Smothers	20	Carterville	1				Head injured, pit cars	36
Mar.	1 Carmi Meyno	29	Cambria	1				Body injured, falling coal	60
	10 Marion Peterson	24	Carterville	1		2	3	Foot broken, pit car	120
	11 Clem Whitson	30	Johnston City	1				Finger injured, pit car	34
	13 Albert Ross	23	Carterville	1		1	2	Hand injured, pit car	39
	14 Roy Williams	24	Clifford	1				Leg injured, pit car	32
	24 Chas. McFadden	34	Carterville	1		1	2	Leg broken, pit car	90
	27 Corum Beavers	23	Cambria	1			1	Foot broken, pit car	90
Apr.	9 Jeff Watson	38	do	1		3	4	Leg broken, falling coal	90
	21 Douglas Dietz	37	Clifford	1		7	8	Body injured, fell from coal chute	41
	23 Joe Chinski	22	Clifford	1				Body burned, gas explosion	51
May	2 Paul Kislesky	54	Herrin	1		3	4	Back injured, fell down	60
	12 Eura Jones	31	Clifford	1				Body injured, cage	30
	13 John McFadden	26	Carterville	1		1	2	Pelvis bone broken, pit car	115
	21 Adolph Bazué	33	Johnston City	1		3	4	Body burned, powder explosion	70
	Total			37	29	79	115		

\* Not returned to work.

NON-FATAL CASUALTIES, TWELFTH DISTRICT, JUNE 30, 1913—*Concluded*

Number injured.....	66	Total time lost by men returned, days.....	3,678
Number not returned, July 1.....	3	Average days lost.....	59.97
Number returned to work.....	63		

## RECAPITULATION OF NON-FATAL CASUALTIES, TWELFTH DISTRICT, 1913

Residence	No.	Occupation	No.	Cause of accident	No.	Colliery	No.
Bush.....	3	Cager.....	1	Cage.....	1	Big Muddy C. & I. ....	12
Cambria.....	5	Drivers.....	23	Coal fell down shaft ..	1	Carterville-Big M. ....	1
Clifford.....	10	Foreman.....	1	Falling coal.....	9	Carterville.....	2
Coulterville.....	6	Laborers.....	5	Falling iron.....	1	Chicago & Carterville..	8
Dewmaine.....	5	Loaders.....	3	Falling pipe.....	1	Hafer Washed.....	1
Fordville.....	1	Machine helper.....	1	Falling slate.....	8	Illinois Hocking.....	3
Herrin.....	14	Machine runners.....	2	Falling timber.....	2	Madison Corp.....	10
Hurst.....	1	Miners.....	17	Fell down.....	2	Peabody.....	9
Johnston City.....	7	Motorman.....	1	Fell from chute.....	1	Rend, W. P.....	1
Marion.....	11	Pumpman.....	1	Flying coal.....	1	Standard Col.....	6
Rendville.....	1	Shothrifer.....	1	Gas explosion.....	4	Taylor.....	6
Whiteash.....	2	Timbermen.....	5	Mule, kicked by.....	4	Western.....	4
		Trackman.....	1	Pit cars.....	24	West Virginia.....	2
		Trappers.....	2	Powder explosion.....	1	Williamson Co.....	1
		Tripriders.....	2	Railroad car.....	3		
				Rail, struck by.....	1		
				Shot explosion.....	1		
				Tail chain.....	1		
Total.....	66		66		66		66

## RECAPITULATION OF NON-FATAL CASUALTIES, NATURE OF INJURED, CONJUGAL RELATIONS AND TIME LOST, TWELFTH DISTRICT, JUNE 30, 1913

Nature of injuries	Number	Married	Single	Children	Dependents	Time lost—days		Percentage of injuries
						Total	Average	
Ankles broken.....	2	2	—	5	7	92	46.0	3.03
Ankles injured.....	2	1	1	2	4	96	48.0	3.03
Arms broken.....	2	1	1	2	3	105	52.5	3.03
Arms injured.....	1	1	—	—	1	30	30.0	1.52
Back injured.....	1	1	—	3	4	60	60.0	1.52
Bodies burned.....	5	4	1	5	8	290	58.0	7.58
Bodies injured.....	8	4	4	16	19	561	70.1	12.12
Collar bone broken.....	5	2	3	4	6	224	44.8	7.58
Eyes injured.....	2	2	—	7	7	46	46.0	3.03
Feet broken.....	6	1	5	2	4	382	76.4	9.09
Feet injured.....	1	—	1	—	—	30	30.0	1.52
Fingers broken.....	2	1	1	3	4	76	38.0	3.03
Finger cut off.....	1	1	—	2	3	30	30.0	1.52
Fingers injured.....	2	1	1	—	1	68	34.0	3.03
Hands injured.....	4	3	1	6	8	182	45.5	6.04
Heads injured.....	2	1	1	1	1	87	43.5	3.03
Legs broken.....	10	6	4	6	15	792	88.0	15.15
Legs injured.....	4	—	4	—	—	171	42.8	6.04
Pelvis bone broken.....	1	1	—	1	2	115	115.0	1.52
Ribs broken.....	2	2	—	11	13	68	34.0	3.03
Shoulder broken.....	1	—	1	—	—	30	30.0	1.52
Shoulder injured.....	1	1	—	1	2	53	53.0	1.52
Toes cut off.....	1	1	—	2	3	90	90.0	1.52
Total.....	66	37	29	79	115	3,678	59.97	100.00

Name of operator	Postoffice address of the mines	Output of mines in tons			Disposition of output		Days of active operation	Employees			Tons mined		Accidents	
		Mine run	Lump	Other grades	Total	Tons loaded on cars for shipment	Other purposes	Average number of miners	All others employed	Total	By hand	By machine	Killed	Injured
1 T. M. McMichael.....	N. Burnside	75	793	72	940	.....	940	3	.....	3	940	.....	.....	.....
2 J. R. Horn.....	Creal Springs	.....	124	20	144	.....	144	6	.....	6	144	.....	.....	.....
Total—2 mines.....	.....	75	917	92	1,084	.....	1,084	9	.....	9	1,084	.....	.....	.....

Mines reported for 1912, 3.  
Abandoned mines, 1.  
Mines in 1913, 2.

## WILLIAMSON COUNTY, TWELFTH DISTRICT, 1913

SHIPPING MINES														
1 Madison Coal Corp., No. 9.....	Dewmaine.....	541,785	1,923	661	544,369	531,886	12,483	19,034	217	265	235	500	457,439	86,930
2 Peabody Coal Co., No. 9.....	Marion.....	45,296	72,576	419,323	537,195	527,578	9,617	17,963	241	150	324	474	355,899	181,296
3 Big Muddy C. & I. Co., No. 8.....	Clifford.....	278,062	40,474	192,619	511,155	466,692	44,463	4,207	194	547	547	.....	511,155	.....
4 Johnston City Coal Co., No. 1.....	Johnston City.....	86,419	99,859	283,590	430,868	430,950	8,918	9,025	240	297	181	478	102,499	337,369
5 W. P. Rend C. & C. Co., No. 2.....	Herrin.....	127,096	63,033	230,112	420,241	408,817	11,424	5,924	212	.....	400	400	34,524	385,717
6 Chicago & Carterville C. Co., A.....	.....do.....	10,550	80,428	273,910	364,888	317,291	47,597	5,343	175	15	444	459	21,505	343,353
7 Sunnyside Coal Co., No. 1.....	.....do.....	307	44,894	310,469	355,730	321,908	33,822	8,353	201	160	293	453	162,803	192,927
8 Madison Coal Corp., No. 8.....	Dewmaine.....	291,574	14,848	5,865	312,287	299,219	13,068	11,978	231	180	190	350	277,774	34,513
9 Western C. & M. Co., Bush.....	Bush.....	204,544	29,531	60,276	294,351	273,574	20,777	1,270	243	192	146	338	294,351	.....
10 Southern Ill. C. & C. Co., O. R.....	Herrin.....	110,043	32,321	141,082	283,496	271,906	11,590	9,172	255	130	185	215	245,290	.....
11 Carterville Coal Co., Burr C.....	Carterville.....	.....	63,865	202,242	266,107	259,470	6,637	8,000	170	200	121	321	266,107	.....
12 Big Muddy C. & I. Co., No. 7.....	Herrin.....	115,223	19,587	115,272	250,082	230,532	19,550	9,825	116	305	157	462	250,082	.....
13 West Va. Coal Co., No. 1.....	Marion.....	164,620	35,893	43,641	244,154	241,154	3,000	3,275	210	12	178	190	240	235,884
14 Taylor Coal Co., No. 2.....	Herrin.....	1,602	26,985	207,297	235,884	224,650	11,234	9,435	168	155	85	240	235,884	.....
15 Carterville & Herrin C. Co., No. 1.....	.....do.....	125,574	13,489	68,665	207,728	203,316	4,412	8,238	221	160	77	237	207,728	.....

## WILLIAMSON COUNTY, TWELFTH DISTRICT, 1913—Concluded

Number	Name of operator	Postoffice address of the mines	Output of mines in tons			Total	Disposition of output		Kegs of powder used for blasting coal	Days of active operation	Employees		Tons mined		Accidents	
			Mine run	Lump	Other grades		Tons loaded on cars for shipment	Other purposes			Average number of miners	All other employees	Total	By hand		By machine
SHIPPING MINES—Concluded																
16	Big Muddy Fuel Co., N. Va.	Johnston City	35,892	29,313	136,338	201,543	194,271	7,272	4,998	205	168	79	61,051	140,492	2	3
17	Ill. Hocking Washed C. Co.	Marion	38,230	...	163,020	201,250	191,150	10,100	2,050	196	175	113	...	201,250	1	6
18	Standard Col. Co., McClintock	Johnston City	11,196	56,780	123,613	197,589	190,449	7,140	3,780	184	220	220	...	197,589	1	6
19	Peabody Coal Co., No. 2	Marion	40,715	38,034	113,510	192,259	186,232	5,967	3,913	176	25	199	46,749	146,510	...	...
20	Haier Washed Coal Co., No. 3	Cartersville	26,686	...	165,254	191,940	178,340	13,600	6,716	136	175	42	217	191,940	...	1
21	Chicago & B. Muddy C. Co., No. 1	Marion	16,997	41,918	121,922	186,837	183,399	3,438	6,158	157	85	235	124,038	62,799	1	...
22	Taylor Coal Co., No. 1	Herrin	147,071	3,235	20,074	170,400	167,484	2,916	6,496	142	125	51	176	170,400	...	1
23	St. Louis-Cartersville C. Co., Dale	do.	127,890	3,489	19,868	151,247	145,451	5,796	5,543	195	142	56	198	151,247	...	...
24	Williamson Co. C. Co., Old Mine	Johnston City	1,826	42,227	104,741	148,794	144,383	4,411	5,653	156	175	55	200	148,794	...	3
25	Pond Creek Coal Co., Franklin	Herrin	38,060	17,761	71,046	126,867	119,507	7,360	1,800	171	113	80	193	126,867	...	...
26	Scranon & B. M. C. M. Co., No. 1	Marion	109,385	...	3,314	112,699	109,385	3,314	1,800	179	100	54	154	112,699	...	...
27	Chicago & Cartersville C. Co., B.	Herrin	1,337	15,696	85,170	102,206	98,988	3,218	3,644	81	204	100	304	102,206	...	4
28	Cartersville & B. M. C. Co., John	Cambridge	85,401	3,551	6,016	94,978	87,607	7,371	3,868	119	135	50	191	94,978	...	...
29	Donaly-Kenneke Coal Co.	Cartersville	62,643	16,996	74,991	92,630	88,388	4,242	3,865	130	85	49	134	92,630	...	1
30	Southern Ill. C. & C. Co., W. R.	Herrin	62,716	13,372	14,631	90,719	84,766	5,953	3,472	159	152	69	221	90,719	...	...
31	Watson Coal Co., No. 2	do.	6,020	11,000	48,610	65,230	65,000	1,230	3,312	180	55	25	80	66,230	...	...
32	Pittsburg B. Muddy Coal Co., No. 2	do.	1,420	6,403	27,573	35,396	34,596	1,800	1,200	87	60	32	92	12,000	23,396	...
33	Consolidated Coal Co., L. C.	Johnston City	28,996	...	74	29,070	28,014	1,056	1,014	107	40	23	63	29,070	...	...
34	Brinckley & Miles	Marion	10,000	9,000	6,000	15,000	10,000	5,000	300	200	10	10	15	15,000	...	...
35	J. S. McNeil	Cartersville	10,000	...	...	10,000	10,000	...	200	250	7	5	12	10,000	...	...
Total			2,867,200	975,200	3,842,789	7,685,189	7,326,413	358,776	200,124	179	4,287	4,866	9,153	4,343	546	66
LOCAL MINES																
1	J. W. Stalcup	Cartersville	...	2,000	4,000	6,000	...	6,000	125	150	6	3	9	6,000	...	...
2	Charles Young	do.	...	3,702	1,234	4,936	...	4,936	330	254	6	...	6	4,936	...	...
3	Henry Reese	Marion	1,500	1,800	500	3,800	...	3,800	18	72	3	...	3	3,800	...	...
4	H. T. Simpson	do.	3,500	...	...	3,500	...	3,500	120	200	2	1	3	3,500	...	...
5	T. E. Lewis	Cartersville	1,250	...	625	1,875	...	1,875	62	130	3	...	3	1,875	...	...
6	F. E. Rentrif	Crab Orchard	60	1,250	1,310	1,310	...	1,310	85	125	4	1	5	1,310	...	...
7	Carter & Sims	do.	1,200	...	...	1,200	...	1,200	25	120	4	...	4	1,200	...	...

[illegible]

Mines reported for 1912, 46.

New mines, 6.

### Abandoned mines, 6.

Mines in 1913, 46.

## RECAPITULATION BY COUNTIES, TWELFTH DISTRICT, 1913

	Johnson	Williamson	Total
<b>SHIPPING MINES</b>			
Number of mines.....		35	35
Production of different grades in tons—			
Mine run.....		2, 867, 200	2, 867, 200
Lump.....		975, 200	975, 200
Egg.....		843, 070	843, 070
Nut.....		1, 055, 837	1, 055, 837
Pea.....		1, 761, 226	1, 761, 226
Slack.....		182, 656	182, 656
Total.....		7, 685, 189	7, 685, 189
Disposition of output in tons—			
Loaded on cars for shipment.....		7, 326, 413	7, 326, 413
Other purposes.....		358, 776	358, 776
Kegs of powder used blasting coal.....		200, 124	200, 124
Days of active operation.....		179	179
Employees, underground—			
Miners.....		4, 287	4, 287
Others.....		3, 742	3, 742
Boys.....		214	214
Employees, above ground.....		910	910
Total.....		9, 153	9, 153
Tons mined by hand.....		4, 343, 546	4, 343, 546
Tons mined by machine.....		3, 341, 643	3, 341, 643
Number of machines in use.....		254	254
Number of motors in use.....		52	52
Number killed.....		23	23
Number injured.....		66	66
Blasting coal—			
From solid—tons.....		2, 417, 366	2, 417, 366
Undercut—tons.....		1, 036, 861	1, 036, 861
Both methods—tons.....		4, 230, 962	4, 230, 962
<b>LOCAL MINES</b>			
Number of mines.....	2	11	13
Production of different grades, in tons—			
Mine run.....	75	5, 235	5, 310
Lump.....	917	12, 177	13, 094
Other grades.....	92	6, 509	6, 601
Total.....	1, 084	23, 921	25, 005
Kegs of powder used blasting coal.....	33	895	928
Days of active operation.....	103	117	115
Number of employees.....	9	45	54
Tons mined by hand.....	1, 084	23, 921	25, 005
Tons mined by machine.....			
Number killed.....			
Number injured.....			

Whole number of mines reported for 1912, 49.

Number of new mines opened during year, 6.

Number of mines abandoned during the year, 7.

Whole number of mines reported for 1913, 48.



## MINE MANAGERS, HOISTING ENGINEERS AND MINE EXAMINERS

MINE MANAGERS HOLDING FIRST CLASS CERTIFICATES ISSUED FROM  
JANUARY 1 TO DECEMBER 1, 1913

Name	Postoffice	Name	Postoffice
Back, Robt. F.	Springfield.	Lovison, Wm. H.	Harrisburg.
Bartels, Henry H.	Divernon.	Maitland, H. S.	Marion.
Bowen, Ben F.	Herrin.	Martini, Henry.	Girard.
Brown, Andrew M., Jr.	Seneca.	Metz, Wm.	Willisville.
Burton, W. M.	Herrin.	Morris, John.	Fairbury.
Canfield, P. W.	Brereton.	Norman, A. E.	Oglesby.
Combest, Robt. E.	Pana.	Oettel, Paul.	Staunton.
Cook, Geo.	Sparland.	Phillips, Geo.	Cherry.
Cook, Walter.	Harrisburg.	Ramsey, Gilbert.	Georgetown.
Coulehan, T. E.	St. David.	Rogers, James.	Norris.
Day, John.	Gillespie.	Robinson, Robt.	Cantrall.
Dixon, Joseph.	West Frankfort.	Rollo, Richard.	Pana.
Duddy, Martin.	Bush.	Ross, John.	Girard.
Eddy, Walter.	Dorrisville.	Ruff, W. J.	Troy.
Eddy, Thomas.	Harrisburg.	Runlund, Fred.	Cedar Point.
Evans, E. P.	Cuba.	Scattergood, James.	Dawson.
Farrand, Walter.	Springfield.	Scattergood, James E.	do.
Flannigan, Geo. W.	Johnston City.	Scott, Walter.	Harrisburg.
Foster, Ralph.	Marion.	Scoby, Ray.	Mathersville.
Furgeson, T. T.	Sawyer ville.	Shaw, Thos.	Canton.
Fullerton, Frank.	Girard.	Shaw, David.	Springfield.
Gardner, Thos.	Johnston City.	Sherman, Chas. F.	Farmington.
Grant, Thos.	Beckemeyer.	Simpson, James I.	Springfield.
Goff, Geo. T.	Harrisburg.	Smith, Edward.	Herrin.
Goff, Edward.	do.	Smith, B. F.	Maryville.
Hedges, R. A.	Johnston City.	Smith, Joseph.	Virden.
Hogan, E. W.	Bush.	Speegle, W. H.	Eldorado.
Hopkins, John.	Eldorado.	Starkey, Charles.	Belleville.
Houglan, John.	Tilden.	Stone, Isaac E.	Farmington.
Howarth, Geo.	Westville.	Streeb, Henry.	Staunton.
Huggins, Abijah.	Duquoin.	Sulski, Charles.	Spring Valley.
Hunsaker, Jess M.	Harrisburg.	Taylor, Henry.	Belleville.
Hunter, Thos. A.	Witt.	Thompson, Joseph C.	Johnston City.
Hutchcraft, H. S.	Harrisburg.	Weise, J. E.	Belleville.
Isler, Henry M.	Belleville.	Welsh, James.	Hillsboro.
Jackson, Benj.	Brereton.	Williams, Gardner.	Johnston City.
Jackson, Charles.	Harrisburg.	Wilson, John B.	Collinsville.
Kesner, Frank.	do.	Wilkinson, Geo. R.	Divernon.
Kurtz, Clyde.	Collinsville.	Windsor, Samuel.	Canton.
Lewis, Francis.	Troy.		

**MINE MANAGERS HOLDING SECOND CLASS CERTIFICATES ISSUED FROM  
JANUARY 1 TO DECEMBER 1, 1913**

Name	Postoffice	Name	Postoffice
Allen, Frank.....	Canton.....	Lauf, Valentine F.....	Belleville.....
Bixler, Bert.....	Carrier Mills.....	Manuel, Alfred.....	Roseville.....
Burbridge, Ora.....	Bluff City.....	Moorcraft, Thos.....	Farmington.....
Bushnell, Milo.....	Astoria.....	Newell, Oscar.....	Chillicothe.....
Dempsey, C. O.....	Equality.....	Peterson, Frank A.....	Kewanee.....
Engel, Joseph.....	Kewanee.....	Pollett, J. G.....	Canton.....
Fidler, H. A.....	Canton.....	Preston, Thomas.....	do.....
Garrett, G. E.....	Astoria.....	South, D. G.....	Ellisville.....
Gibson, J. G.....	Ipava.....	Standard, H. O.....	Canton.....
Goetz, Carl.....	Pottstown.....	Sterling, L. S.....	New Athens.....
Golick, Charles.....	Canton.....	Stuhlratz, Peter.....	Kewanee.....
Gooden, Robert.....	Farmington.....	Syers, Wm.....	Equality.....
Grant, Wm.....	Pekin.....	Tate, Addison L.....	Danville.....
Hannay, Wm. Marcus.....	Farmington.....	Vallentine, Don.....	Astoria.....
Hodgett, Abb.....	Kewanee.....	Vise, George.....	Canton.....
Hodgett, Frank.....	do.....	Wade, Ralph.....	do.....
Horkstrom, Edward.....	Victoria.....	Wheelhouse, Ora.....	Rushville.....
Janskovich, Joe.....	Canton.....	Westerfield, Peter.....	Canton.....
King, James.....	Cuba.....	Wolgemut, Frank.....	do.....
Kuhlman, Otto.....	Coal Valley.....	Wright, David.....	Edwardsville.....
Landis, W. D.....	Canton.....	Young, Charles.....	Crainville.....

**HOISTING ENGINEERS HOLDING CERTIFICATES ISSUED FROM JANUARY 1  
TO DECEMBER 1, 1913**

Archdale, James.....	Peoria.....	McAllister, Herbert.....	Herrin.....
Arrasmith, Ira.....	Catlin.....	McDonald, Herbert.....	Williamsville.....
Baldwin, Harry.....	Carrier Mills.....	McPherson, Wm.....	Herrin.....
Bane, F. W.....	Springfield.....	McQuay, Orvil.....	do.....
Baxter, Adam.....	Canton.....	Marsh, J. J.....	Danville.....
Brants, Theodore.....	Pekin.....	Mauck, Fred.....	do.....
Brown, Orval.....	Canton.....	Miller, John H.....	Summerfield.....
Case, Joseph.....	Pochontas.....	Mueller, John.....	Zeigler.....
Craig, E. J.....	Herrin.....	Mulligan, Maurice.....	Farmington.....
Davis, Ray.....	Benton.....	Myers, Edward.....	Kincaid.....
Davis, Ernest.....	Cartersville.....	Parkinson, Alex.....	Harrisburg.....
Deppe, Earl.....	Christopher.....	Peek, Robert.....	West Frankfort.....
Ewell, Otto.....	Harrisburg.....	Pike, Andy A.....	Christopher.....
Ewell, C. C.....	do.....	Robinson, Charles.....	Toluca.....
Gibson, Charles E.....	Sandoval.....	Rose, S. H.....	Lincoln.....
Harriss, Otho.....	Duquoin.....	Rude, Harry.....	Harrisburg.....
Harriss, Joseph.....	do.....	Sharp, Mack H.....	Taylorville.....
Henry, Elmer.....	Kewanee.....	Shever, John F.....	Georgetown.....
Howard, DeLee.....	Danville.....	Shelton, W. T.....	Herrin.....
James, Fred.....	Staunton.....	Smith, J. F.....	Danville.....
Jeffrey, Albert.....	Herrin.....	Smith, Chester.....	do.....
Jones, Israel.....	Freeburg.....	Stevens, Ernest.....	Farmington.....
Kent, Charles L.....	Centralia.....	Strickland, Guy F.....	Herrin.....
Kinney, Wilber.....	West Frankfort.....	Strock, John.....	West Frankfort.....
Krapp, Conrad.....	Collinsville.....	Vermillion, Ervin.....	Pana.....
Lawson, Wm. E.....	Ellisville.....	Walker, Wm.....	Salisbury.....
Lloyd, Mathew.....	Girard.....	Wassell, Andrew.....	Taft.....
Lusk, Wm.....	Taylorville.....	Waugh, Percy.....	Herrin.....
		Weatherholt, Wm.....	Moweaqua.....
		Wells, Perry.....	Hanaford.....
		West, Leonard.....	Pana.....
		Wilkins, Blain.....	Johnston City.....
		Woolbridge, Orpha.....	Centralia.....

MINE EXAMINERS HOLDING CERTIFICATES ISSUED FROM JANUARY 1 TO  
DECEMBER 1, 1913

Name	Postoffice	Name	Postoffice
Akens, E. R.	Elkville.	Karvelot, Albert	Collinsville.
Aken, Lyman.	do.	Kerr, Daniel	Cartersville.
Barnes, Frate.	Johnston City	Lacey, Hardie	Georgetown
Baxter, Robert	Canton	Larkowski, Charles	Glen Carbon
Biggs, C. J.	Marion	Luther, John W.	Wasson
Birchnall, Charles.	Westville	Luttrell, Thomas	Eldorado.
Boland, Peter.	Dewmaine.	Lyons, Wm.	Gillespie.
Bowers, Wm. H.	Nokomis.		
Brown, Thos. B.	Tilden.	McDonald, Mike	Westville.
Brown, James A.	Thayer	McCarnes, Robert	West Frankfort.
Burruss, Otis	Galatia.	McCarty A. B.	Riverton.
		McGurk, John	Staunton.
Canfield, P. W.	Brerton	McGurk, Samuel	do.
Carriaux, Theodore.	Spring Valley	McMurray, Dayton	Herrin.
Cash, Robert	Marion	Mallaburn, Edward	do.
Charlton, J. O.	Pinckneyville	Martin, Geo.	Clifford.
Corbin, Earl.	West Frankfort	Maughan, Wm.	Herrin.
Coulehan, T. E.	St. David	Mellish, Thos.	Thayer.
Cowell, Wm.	West Frankfort	Meyer, Henry	Belleville.
Crain, Emery	Percy	Monahan, Ed.	Divernon.
Cull, David	Johnston City	Mowatt, Amos, Jr.	Glen Varbon.
		Mueller, Henry C.	Mt. Olive.
Day, Wm.	Gillespie		
Deakin, Ernest	Pekin	North, J. M.	Cutler.
Deans, Thomas	West Frankfort		
Devonald, D. H.	do.	Opp, W. H.	Percy
Drenckpohl, Louis	Centralia.	Overly, Jack	Staunton.
Dodd, Austin E.	Witt		
Dzwrus, Geo., Jr.	Staunton.	Parsons, Wilson	Christopher
Eaton, Alfred	Girard	Rains, R. L.	Cartersville.
Elliott, H. E.	Hurst	Roddy, James M.	Springfield.
Evans, James L.	Hanaford	Rogers, James	Norris
Evers, John, Jr.	Canton	Rourke, John O.	Westville
Ewing, Steward	Streator	Runlund, Fred	Cedar Point.
		Russell, Thos.	West Frankfort.
Fickert, Henry, Jr.	Staunton.		
Fries, Joseph F.	Sawyersville.	Selotto, Louis	Witt
Fries, Wm. J.	Gillespie.	Scattergood, Joseph W.	Dawson.
		Schoonover, Fred	Glen Carbon
Glancey, Chas.	Christopher	Schull, Ben	Johnston City
Greiner, Wm.	Belleville.	Shea, James	Collinsville.
		Singleton, Frank	Cambria.
Harding Joseph	do.	Smith, Jos. H.	Whiteash.
Hellmick, Louis	Staunton.	Smith, Ben H.	Johnston City.
Higgins, Charles	Hallidayboro.	Snider, Ralph	Bush.
Hochmuth, Ernest	Staunton.	Swan, Leo. H.	Christopher
Holstine, B. E.	Georgetown		
Hope, Geo.	Johnston City	Templeton, James M.	Panama.
Hope, John	Danville.		
Hoge, S. D.	Christopher	Vanhooose, R. E.	Herrin.
Hudson, Wallace	Cartersville.	Vanhooose, Wm.	Clifford.
Huggins, Alijah	Duquoin.	Vanhooose, H. J.	Herrin.
Hunter, Theo. A.	Witt	Vlasak, Joseph	Belleville.
Innis, Andrew	Gillespie.	Wagoner, Charles	Herrin.
		Weise, J. E.	Belleville.
Jakobek, Anthony	Belleville	Wellington, C. O.	Duquoin.
Jones, Wm. A.	Taylorville.	White, Joseph	Sherman.
Joyce, Peter	Springfield.	Wray, Henry	Staunton.
Justus, H. R.	Canton.	Wood, Charles	Springfield.
		Wright, Edward	Belleville.





